CAR 000 91 536 Part A \$ JA-1



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX

75 Hawthorne Street San Francisco, CA 94105

# WASTE MANAGEMENT DIVISION RCRA ENFORCEMENT OFFICE RCRA COMPLIANCE EVALUATION INSPECTION REPORT

**Purpose:** 

RCRA Compliance Evaluation Inspection

**Facility:** 

Space Exploration Technologies

Location:

1 Rocket Road, Hawthorne, CA 90250

**EPA ID Number:** 

CAR 000 191 536

**Date of Inspection:** 

July 13, 2009

**EPA Representatives:** 

James Polek

RCRA Enforcement Officer

(415) 972-3185

Kaoru Morimoto

RCRA Enforcement Officer

(415) 972-3306

Christopher Rollins

RCRA Enforcement Officer

(415) 947-4166

**Facility Representative:** 

Bill Woolley

Safety Engineer (310) 363-6645

(310) 363-6001 (Fax)

william.woolley@spacex.com

**Report Prepared By:** 

James Polek

Report Date:

August 24, 2009

### **Introduction**

On July 13, 2009, U.S. Environmental Protection Agency (EPA) representatives conducted an unannounced site inspection of the Space Exploration Technologies (Spacex) facility in Hawthorne, CA. The purpose of the inspection was to determine Spacex's compliance with applicable federal environmental statutes and regulations, and in particular, the Resource Conservation and Recovery Act (RCRA), as amended, the regulations provided in the Code of Federal Regulations (CFR), Chapter 40, Parts 261-265, 268, and 279, and the California Code Regulations (CCR), Title 22, Division 4.5 and the California Health and Safety Code, Division 20.

The inspectors conducted a physical inspection of the facility and reviewed records related to Spacex's hazardous waste management practices. This inspection report summarizes the events that transpired during the inspection, observations made by the inspectors, and materials received by the facility after the inspection.

#### **Facility Background**

Facility Name	Space Exploration Technologies
Established	2002; at current location since November 2007
Number of Employees	600
Facility Size	500,000 square feet
Hours of Operation	Portions of facility are 24/7
Filed Notification of	April 17, 2008
Hazardous Waste Activity	
Facility Processes	Spacex designed and is manufacturing a launch vehicle for
	placing satellites into orbit and for delivering cargo to the
	international space station. The company is currently
	transitioning from a research and development company to a
	manufacturing company. Spacex designed and is manufacturing
	the liquid-fuel rocket that powers the launch vehicle as well as
	the avionics throughout the vehicle.
Waste Streams	Waste alodine (D002, D007), waste acetone (F003), waste
	isopropyl alcohol and phenol (D001), waste rocket propellant
	(D001), paint waste (D001, F003, F005), waste resin and epoxy
	(D001), waste Pasa Jell (D002, D007), waste etch (D002),
	magnesium chips in oil (D001, D003), machine shop coolant
	(CA 223), waste filters (CA 352), spent lamps and batteries
	(universal waste)
Generator Status	Large Quantity Generator (LQG)
Last Inspection	According to EPA's RCRAInfo database, a RCRA compliance
	evaluation inspection has never been conducted at this Spacex
	location.

# **Facility Inspection**

The inspectors were given a tour of the facility by Mr. Bill Woolley. The following tables summarize the areas inspected and the potential violations found in the satellite accumulation areas (SAA) and the hazardous waste storage area.

Area 1: Hazardous Waste Storage Area - Potential Violations

			Potential	
Location	Container Type	Waste Type	Violation	Photo
Hazardous Waste Storage Area	1 30-gallon container with accumulation start date (ASD) of 3/13/09	Waste acetone (D001)	Storage for >90 days; Incomplete label	1-A
	1 55-gallon container	Waste alodine (D002, D007)	Incomplete label	
	1 350-gallon tote (see comment)	Waste coolant (CA 223)	None	
	2 cubic yard boxes	Dirty floor mats and rags awaiting laundry service	None	
	1 cubic yard box	2 garbage bags of hysol glue (resin) (D001)	No ASD	
	1 cubic yard box	Machine shop filters (CA 352)	No label	- 170
	1 55-gallon container with ASD of 4/24/08	Waste isopropyl alcohol (D001)	Storage for >90 days; Open container; Incomplete label	1-B
	1 55-gallon container with ASD of 1/20/09	Waste alodine rags (D007)	Storage for >90 days	1-C
	1 2-gallon container in flammable materials cabinet	Unknown	No label; Open container	
	1 30-gallon container	Pasa Jell acidic waste (D002, D007)	Incomplete label	1-D

		Waste paint lab		
		packs (D001,	Incomplete	
	2 55-gallon containers	F003, F005)	labels	
			One open	
Hazardous			box;	
Waste Storage		Universal waste	Two boxes	
Area (cont)	3 cardboard boxes	lamps	no label	
		Spent acidic		
		batteries		
	1 55-gallon container	(universal waste)	None	
		Spent alkaline		
		batteries		
	1 30-gallon container	(universal waste)	None	:
		Paint waste		
	1 30-gallon container	(D001)	None	
	1 5-gallon container with	Acid etch waste	Storage for	
•	ASD 11/16/08	(D002)	>90 days	1-E
		Waste acid		
		awaiting waste		
	1 5-gallon container	determination	None	
	<u> </u>	Waste rocket		
		propellant (RP-1)		
	1 55-gallon container	(D001)	No label	
		Waste aerosol		
	1 20 gallon container		No label	
	1 30-gallon container	cans (D001)	140 taner	L

Comments: Liquid was present in the secondary containment of the tote, which means that the secondary containment was actually an open container of non-RCRA hazardous waste coolant (CA 223). The hazardous waste storage area lacks aisle space between containers to allow for inspection of the containers (Photos 1-F and 1-G).

Area 2: Deburring Area - Potential Violations

Location	Container Type	Waste Type	Potential Violation	Photo
Outside				
Deburring	1 20-gallon flammable			
Area	materials container	Oily rags	No label	

Comments: The containers of oily rags throughout the facility need to have hazardous waste labels. None of the containers observed during the inspection were labeled properly.

Area 3: PICA Lab - Potential violations

			Potential	
Location	Container Type	Waste Type	Violation	Photo
Inside Lab	1 20-gallon flammable materials container	Rags with PICA solution (D001)	Incomplete label	
	1 24-ounce container	Waste resin (D001)	No label; Open container	3-A
	1 5-gallon container	Glycol saturated waste (CA 223)	No label	j
Outside Lab	350-gallon tote	Empty	None	

Comments: The tote outside the lab receives waste during production runs. The facility representative indicated that lab personnel label the tote when production begins.

Area 4: Avionics - Potential violations

Location	Container Type	Waste Type	Potential Violation	Photo
Avionics Area	1 14-gallon flammable materials container	Label stated "Hazardous Materials Only"	Incomplete label	4-A
	1 5-gallon flammable materials container	Label stated "FOD – Foreign Object Debris"	Incomplete label	4-A
Clean Room	1 14-gallon flammable materials container	Label stated "Hazardous Materials Only"	Incomplete label	
	1 5-gallon flammable materials container	Label stated "FOD – Foreign Object Debris"	Incomplete label	

Comments: The inspectors explained to the facility representative that the container labels

needed to be changed to hazardous waste labels if they indeed were used for hazardous waste. Containers throughout the facility used this labeling methodology, so the facility needs to modify labels on these containers as well, as appropriate.

Area 5: Structures Testing – Potential Violations

Location	Container Type	Waste Type	Potential Violation	Photo
Structures Testing Area	1 5-gallon container	Used hydraulic oil	Open Container; No label	
	1 20-gallon flammable materials container	Oily rags	No label	

**Comments: None** 

Area 6: Composite Finishing - No Violations

Location	Container Type	Waste Type	Potential Violation	Photo
Composite Finishing	None	None	None	

Comments: The composite material is cured, so no hazardous waste is generated in this area.

Area 7: Spin-Form Area - Potential Violations

Location	Container Type	Waste Type	Potential Violation	Photo
Spin-Form Area	1 5-gallon container	Label indicated "Alodine only"	Need waste determination	7-A

Comments: None.

Area 8: Machine Shop - Potential Violations

Location	Container Type	Waste Type	Potential Violation	Photo
EDM Area	None	None	None	
Lathe and Mill Area	3 14-gallon flammable materials containers	Oily Rags	No labels; One open container	
	1-gallon pan	Cutting oil	Need waste determination	8-A
	1 5-gallon container	Spent way lube	No label	
	1 5-gallon container	Unknown	Need waste determination	

Comments: None.

#### Record Review

Reviewed the following records:

- Manifests from 2007 through 2009
- Land Disposal Restriction (LDR) Notifications
- Biennial Reports
- Contingency Plan
- Training Plan
- Training Records
- Inspection Log.

The 2007 manifests and LDR notifications were from Spacex's previous location and some did not have a final signed copy. Spacex did not manifest hazardous waste from their current location until 2008. No LDR notifications were available for their current location.

The 2007 Biennial Report was not prepared for the current location because Spacex was not an LQG at this location in 2007. However, Spacex is now an LQG and they will need to file a 2009 Biennial Report by March 1, 2010 for their current location.

The contingency plan needed to include arrangements with emergency responders and needed to include descriptions and locations of emergency equipment throughout the facility.

The facility had training records for Mark Drop, the employee responsible for the hazardous

waste storage area. The facility did not have a training plan that indicates employee job descriptions and training required for those employees responsible for managing hazardous waste.

The facility representative indicated that the 90-day hazardous waste storage area was inspected daily, and that the inspections were only documented quarterly.

#### Potential Violations of RCRA Hazardous Waste Requirements

1. Storage of hazardous waste without a permit 22 CCR §66270.1(c) [40 CFR §270.1(c)]. Failure to store hazardous waste for less than the 90 day limit allowed LQGs, 22 CCR §66262.34(a) [40 CFR §262.34(a)].

#### Requirements:

22 CCR §66270.1(c) requires that each person owning or operating a facility where hazardous waste is transferred, treated, stored, or disposed must have a permit. However, LQGs may accumulate hazardous waste on-site for 90 days or less without a permit provided that the waste is properly contained, labeled, and managed, as defined in California regulation 22 CCR §66262.34(a).

#### Findings:

The following containers in the Hazardous Waste Storage Area were stored for longer than 90 days:

- One 30-gallon container of waste acetone (D001) with ASD of 3/13/09
- One 55-gallon container of waste isopropyl alcohol (D001) with ASD of 4/24/08
- One 55-gallon container of waste alodine rags (D007) with ASD of 1/20/09
- One 5-gallon container of acid etch waste (D002) with ASD 11/16/08.

#### Facility Response:

On July 21, 2009, Spacex emailed photographs of the Hazardous Waste Storage Area and indicated that the waste was picked up that day.

# 2. Failure to label hazardous waste containers properly, 22 CCR §66262.34(f) [40 CFR §262.34(a)].

#### Requirements:

As stated in California regulation 22 CCR §66262.34(f)(1), generators who accumulate hazardous waste on-site without a permit shall have the date accumulation begins clearly marked, and visible for inspection, on each container. As stated in California regulation 22 CCR §66262.34(f)(3), each container must also be clearly marked with the words "Hazardous Waste," and labeled with the composition and physical state of the waste, hazardous properties, and facility name and address.

#### Findings:

Labels on the containers in the Hazardous Waste Storage Area were missing or incomplete:

- One 30-gallon container of waste acetone (D001) had an incomplete hazardous waste label.
- One 55-gallon container of waste isopropyl alcohol (D001) had an incomplete hazardous waste label.
- One 55-gallon container of waste alodine (D002, D007) had an incomplete hazardous waste label.
- One 55-gallon container with two garbage bags of hysol glue (resin) (D001) had a hazardous waste label with no ASD.
- One 2-gallon container of unknown material in the flammable materials cabinet (assumed to be D001 because it is in flammable materials cabinet) did not have a hazardous waste label.
- One 30-gallon container of Pasa Jell acidic waste (D002, D007) had an incomplete label.
- Two 55-gallon containers of waste paint lab packs (D001, F003, F005) had an incomplete labels.
- One 55-gallon container of waste rocket propellant (RP-1) (D001) had no hazardous waste label.
- One 30-gallon container of waste aerosol cans (D001) had no hazardous waste label.

# Facility Response:

On July 21, 2009, Spacex emailed photographs of the Hazardous Waste Storage Area and indicated that waste was picked up that day. The waste remaining was properly labeled.

# 3. Failure to close hazardous waste containers, 22 CCR §66265.173(a) [40 CFR §265.173(a)].

#### Requirements:

As stated in California regulation 22 CCR §66262.34(a), generators may accumulate hazardous waste on-site for 90 days or less without a permit or grant of interim status, provided that the generator complies with the requirements in Article 9 of Chapter 15. As stated in Article 9 (22 CCR §66265.173(a)), a container holding hazardous waste shall always be closed during transfer and storage, except when it is necessary to add or remove waste.

#### Findings:

- One 55-gallon container of waste isopropyl alcohol (D001) in the Hazardous Waste Storage Area was left open.
- One 2-gallon container of unknown material in the flammable materials cabinet in the Hazardous Waste Storage Area had no lid.
- One 24-ounce container of waste resin (D001) in the PICA lab had no lid.

#### Facility Response:

On July 21, 2009, Spacex emailed a photograph of the empty flammable materials cabinet in the Hazardous Waste Storage Area and indicated that the waste was picked up that day.

# 4. Failure to maintain adequate aisle space in hazardous waste storage area, 22 CCR §66265.35 [40 CFR §265.35].

#### Requirements:

California regulation 22 CCR §66262.34(a)(4) indicates that a generator may accumulate hazardous waste on-site without a permit provided that the generator complies with the requirements in Article 3 of Chapter 15. As stated in Article 3 (22 CCR §66265.35), the owner or operator shall maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency.

#### Findings:

The lack of aisle space in the hazardous waste storage area limited the inspection of the hazardous waste containers.

#### Facility Response:

On July 21, 2009, Spacex emailed photographs of the Hazardous Waste Storage Area showing that it was organized with fewer containers than observed during the inspection and plenty of aisle space to allow for proper inspection of the containers.

# 5. Failure to label hazardous waste containers in satellite accumulation area, 22 CCR §66262.34(e)(1) [40 CFR §262.34(c)(1)].

#### Requirements:

As stated in California regulation 22 CCR §66262.34(e)(1), generators may accumulate as much as 55-gallons of hazardous waste at or near any point of generation provided that the initial date of waste accumulation is clearly marked and visible for inspection, and that the generator complies with subsection 22 CCR §66262.34(f)(3). Subsection 22 CCR §66262.34(f)(3) requires that the container be clearly marked with the words "Hazardous Waste," and the container is labeled with the composition and physical state of the waste, hazardous properties, and facility name and address.

#### Findings:

Labels on containers in the following SAAs were missing or incomplete:

- One 20-gallon flammable materials container of rags with PICA solution (D001) in the PICA lab had an incomplete hazardous waste label.
- One 24-ounce container of waste resin (D001) in the PICA lab had no hazardous waste label.
- Two 14-gallon flammable materials containers, one inside and one outside the Avionic's clean room, were labeled as "Hazardous Material Only."

- Two 5-gallon flammable materials containers, one inside and one outside the Avionic's clean room, were labeled as "FOD Foreign Object Debris."
- Flammable materials containers (14-gallon Hazardous Material Only and 5-gallon FOD) throughout the facility have incomplete hazardous waste labels.

# 6. Failure to make a hazardous waste determination, 22 CCR §66262.11 [40 CFR §262.11].

#### Requirements:

As stated in California regulation 22 CCR §66262.11, a person who generates a solid waste must determine if that waste is a hazardous waste by using a three part method: a) check to see if the waste is excluded in 22 CCR §66261.4, b) verify if the waste is a listed hazardous waste in Articles 4 or 4.1 of Chapter 11, and c) determine if the waste is characteristically hazardous (see Article 3 of Chapter 11) by appropriate analytical methods or by knowledge of process.

### Findings:

- A waste determination needs to be made on the contents of a 5-gallon container in the Spin-form Area marked as "Alodine only."
- Waste determinations need to be made on the contents of a 1-gallon pan of cutting oil and a 5-gallon container of unknown material in the Machine Shop.

# 7. Failure to maintain land disposal restriction records, 22 CCR §66268.7(a)(8) [40 CFR §268.7(a)(8)].

#### Requirements:

As stated in California regulation 22 CCR §66268.7(a)(8), generators shall retain on-site a copy of all notices, certifications, waste analysis data, and other documentation produced pursuant to this section for at least three years from the date that the waste that is the subject of such documentation was last sent to on-site or off-site treatment, storage, or disposal.

#### Findings:

Spacex did not have LDR notifications for hazardous waste shipped from their current location.

# 8. Failure to have a current contingency plan as required by 22 CCR § 66265.52 [40 CFR §265.52].

#### Requirements:

California regulation 22 CCR §66262.34(a)(4) indicates that an LQG may accumulate hazardous waste on-site for 90 days without a permit provided that the generator complies with the requirements in Article 4 of Chapter 15. As required in Article 4 (22 CCR §66265.52(c)), the plan shall describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to

coordinate emergency services. As required in Article 4 (22 CCR §66265.52(e)), the contingency plan shall include a list of all emergency equipment at the facility. This list shall be kept up to date. In addition, the plan shall include the location and a physical description of each item on the list, and a brief outline of its capabilities.

#### Findings:

Spacex's contingency plan did not include arrangements with emergency responders and did not include descriptions and locations of emergency equipment throughout the facility.

# 9. Failure to have adequate training plan as required by 22 CCR § 66265.16 [40 CFR §265.16]

#### Requirements:

California regulation 22 CCR §66262.34(a)(4) indicates that an LQG may accumulate hazardous waste on-site for 90 days without a permit provided that the generator complies with the requirements in 22 CCR §66265.16. As required in 22 CCR §66265.16, facility personnel shall successfully complete a program of classroom instruction or on-the-job training that teaches them to perform their duties in a way that ensures the facility's compliance with the hazardous waste regulations. Facility personnel shall have initial training within six months from employment and annual review of the training. The owner or operator shall maintain at the facility a job title for each position at the facility related to hazardous waste management, a written job description for each position at the facility related to hazardous waste management, and a written description of the type and amount of both introductory and continuing training given to personnel filling a position. The facility must also maintain records to document training provided to their personnel.

#### Findings:

Spacex did not have a training plan for review at the time of inspection.

# Potential Violations of non-RCRA, California-only Hazardous Waste Requirements

#### 1. Failure to label hazardous waste containers properly, 22 CCR §66262.34(f).

#### Requirements:

As stated in California regulation 22 CCR §66262.34(f)(1), generators who accumulate hazardous waste on-site without a permit shall have the date accumulation begins clearly marked on the container and visible for inspection. As stated in California regulation 22 CCR §66262.34(f)(3), each container must also be clearly marked with the words "Hazardous Waste" and must be labeled with the composition and physical state of the waste, hazardous properties, and facility name and address.

#### Findings:

The hazardous waste containers in the following areas were not labeled with the above required information:

- The cubic-yard box of machine shop filters (CA 352) in the Hazardous Waste Storage Area.
- The 20-gallon flammable materials container of oily rags in the Deburring Area.
- The 20-gallon flammable materials container of oily rags in the Structures Testing Area.
- Three 14-gallon flammable materials container of oily rags in the Machine Shop.
- The 20-gallon and 14-gallon flammable materials containers used for oily rags throughout the facility.
- The 5-gallon container of glycol saturated waste (CA 223) in the PICA Lab.
- The 5-gallon container of used hydraulic oil in the Structures Testing Area.
- The 5-gallon container of spent way lube in the Machine Shop.

#### Facility Response:

On July 21, 2009, Spacex emailed a photograph of the cubic-yard box of waste machine shop filters in the Hazardous Waste Storage Area demonstrating that it had a complete hazardous waste label.

# 2. Failure to close hazardous waste containers in satellite accumulation area, 22 CCR §66265.173(a).

## Requirements:

As stated in California regulation 22 CCR §66262.34(e), generators may accumulate as much as 55-gallons of hazardous waste at or near any point of generation provided that they comply with 22 CCR §66265.173(a). As stated in California regulation 22 CCR §66265.173(a), a container holding hazardous waste shall always be closed during transfer and storage, except when it is necessary to add or remove waste.

#### Findings:

- The secondary containment of the 350-gallon tote of waste coolant (CA 223) in the Hazardous Waste Storage Area contained liquid.
- The 5-gallon container of used hydraulic oil in the Structures Testing Area did not have a lid.
- One of the 14-gallon flammable materials containers of oily rags in the Machine Shop had a broken lid.

#### Facility Response:

On July 21, 2009, Spacex emailed a photograph of a used hydraulic oil container with a lid in the Structures Testing Area.

### 3. Failure to containerize universal waste as required by 22 CCR §66273.33(b)(1).

#### Requirements:

As stated in California regulation 22 CCR §66273.33(b)(1), universal waste lamps shall be contained in containers or packages that remain closed.

### Findings:

In the Hazardous Waste Storage Area there was one open box of spent fluorescent tubes

## 4. Failure to label universal waste as required by 22 CCR §66273.34(c).

### Requirements:

As stated in California regulation 22 CCR §66273.34(c), lamps, or a container or package in which the lamps are contained, shall be labeled or marked clearly with the following phrase: "Universal Waste-Lamp(s)."

### Findings:

In the Hazardous Waste Storage Area there were two boxes of spent fluorescent tubes that were not labeled.

# **Photo Log**

(Photo Log includes a portion of the inspection photos)

# Area 1 – Hazardous Waste Storage Area

Area	zardous Waste Storage Hazardous Waste ea		HAZARDOUS
Photo: 1-A	Date: 7/13/09	300 OT IVER SOCC	WASTE STATE AND FEDERAL LAW PROBIBITS IMPROPER DISPOSAL W FOUND, CONTACT THE BEAREST POLICE, OR PUBLIC DAPPLY OR AUTHORITY, OR THE LIE. ENVIRONMENTAL PROFESSIONAL SERVICE THE CALIFORNIA DEPARTMENT OR TO TALL SEMBLEANCES CONTROL.
Potential \ Storage of I than 90 day	nazardous waste for longer	161059	GERBANDE BIODRATCHE  NAME OPPOSE  COT-  INT.  IN
	n: Label of waste ontainer (D001) with ASD		PRINCE CONTROL PROPERTY OF PARTIES OF THE PROPERTY OF THE PARTIES

Area: Hazardous Waste Storage

Area

Location: Hazardous Waste

Storage Area

Photo: Da

Date: 7/13/09

1-B

**Potential Violations:** 

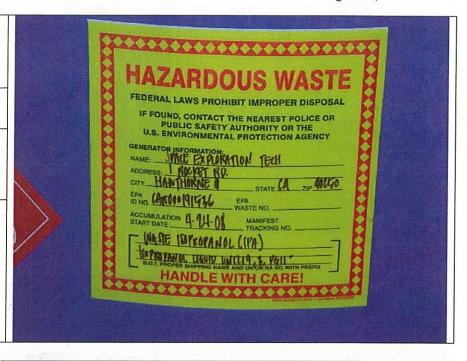
Storage of hazardous waste for longer

than 90 days.

Description: Label of waste

isopropyl alcohol container (D001)

with ASD of 4/24/08.



Area: Hazardous Waste Storage

Area

Location: Hazardous Waste

Storage Area

Photo: Date: 7/13/09

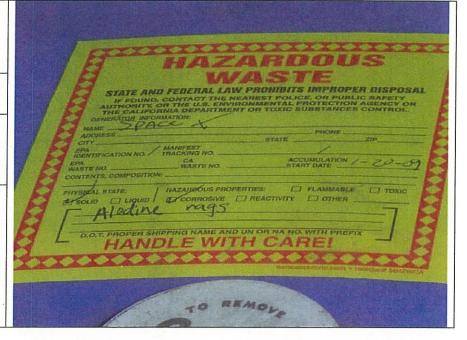
1-C

**Potential Violations:** 

Storage of hazardous waste for longer

than 90 days.

Description: Label of waste alodine rags container (D007) with ASD of 1/20/09.



Area: Hazardous Waste Storage

Area

Location: Hazardous Waste

Storage Area

Photo:

Date: 7/13/09

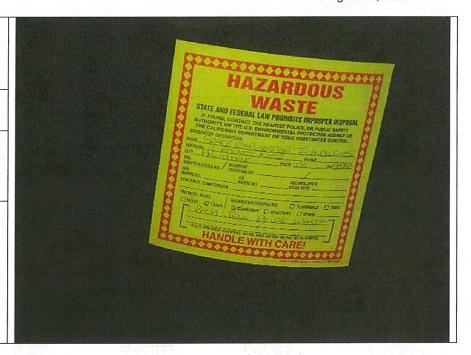
1-D

**Potential Violations:** 

Incomplete hazardous waste label

Description: Label of Pasa Jell acidic waste container (D002,

D007)



Area: Hazardous Waste Storage

Area

Location: Hazardous Waste

Storage Area

Photo:

Date: 7/13/09

1-E

**Potential Violations:** 

Storage of hazardous waste for longer

than 90 days.

Description: Label of acidic etch waste container (D002) with ASD of 11/16/08.



Area: Hazardous Waste Storage

Area

Location: Hazardous Waste

Storage Area

Photo:

Date: 7/13/09

1-F

Potential Violations: Lack of aisle space

Description:



Area: Hazardous Waste Storage

Area

Location: Hazardous Waste

Storage Area

Photo:

Date: 7/13/09

1-G

Potential Violations:

Lack of aisle space

Description:



Area 2 - None

### Area 3 – PICA Lab

Area: PICA Lab Location: Inside lab

Photo:

Date: 7/13/09

3-A

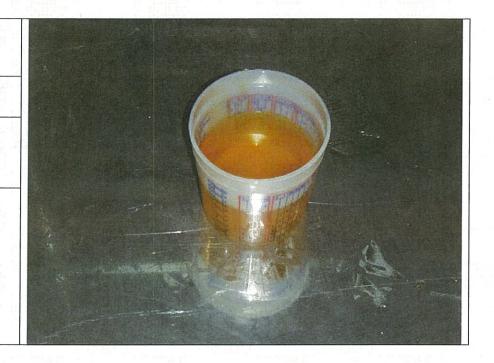
**Potential Violations:** 

Open and unlabeled container of

hazardous waste.

Description: Container of waste

resin (D001)



## Area 4 – Avionics

Area: Avionics

Location: Avionics area

Photo:

Date: 7/13/09

4-A

**Potential Violations:** 

Improperly labeled containers of

hazardous waste

Description:



Area 5 - None

Area 6 - None

# Area 7 – Spin-form Area

Area: Spin-form Area Location: Spin-form Area

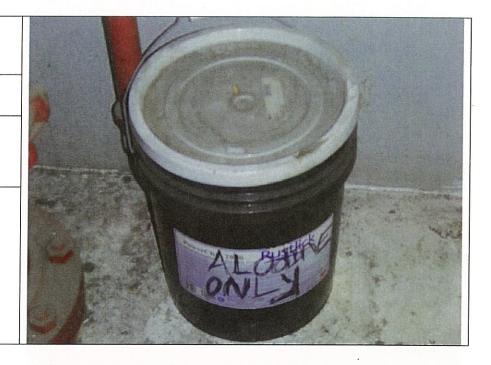
Photo:

Date: 7/13/09

7-A

Potential Violations: Need waste determination.

Description:



# Area 8 – Machine Shop

Area: Machine Shop

Location: Lathe and Mill Area

Photo:

Date: 7/13/09

8-A

Potential Violations:

Need waste determination.

Description:





#### Los Angeles County Fire Dept • Health Hazardous Materials Division Certified Unified Program Agency • Participating Agency



REFER REPLY TO: Southwest (Lomita) District Office 24330 Narbonne Avenue Lomita, CA 90717 (310) 534-6270

# INSPECTION REPORT

BUSINESS:	OWNER:	DATE:
SPACE EXPLOPATION TECHNOLOGIES	ELON MUSK	5/5/2010
ADDRESS:		T. TRO
I ROCKET RY HAWMORNE (A 9	9250	PA . CD

The following items, if applicable, have been inspected. This document constitutes a Summary of Violations and Notice to Comply if the violation (V) column is

pr 5 mil (1		HAZARDOUS WASTE GENER	ATOR		HAZADROYOWACT	DATOR:
	V	SUBJECT	SECTION	3000	HAZARDOUS WASTE GBN) V SUBJECT	SECTION
1		Hazardous waste determination	CCR 66262.11	24	Manifest copies retained for 3 years	CCR 66262.40(a)
2		Proper disposal of hazardous waste	HSC 25189.5 (a)	25		HSC 25160.2
		Maintain/operate to prevent release/fire	CCR 66265.31	26	Hazardous waste transported by registered hauler	
t		Hazardous waste labeling	CCR 66262.34(f)	27	LDR documents retained onsite	CCR 66268.7(a)(6)
İ		Hazardous waste accumulation time	CCR 66262.34(a-d)	28	Hazardous waste analysis retained for 3 years	CCR 66262.40(c)
T		Hazardous materials storage and labeling	CCR 66261.2(f)	29	Personnel training	CCR 66265.16
r		Satellite accumulation	CCR 66262.34(e)	30	Contingency plan	CCR 66265.51
_		Containers leaking or not in good condition	CCR 66265.171	31	Emergency preparedness/prevention	
		Hazardous waste containers closed	CCR 66265.173(a)	32		CCR 66265.3037
-					Source Reduction requirements for LQGs	CCR 67100.3
_		Separation of incompatibles	CCR 66265.177	33	Biennial Report requirements	CCR 66262.4041
-		Retrograde/accumulated speculatively	CCR 66262.10	34		HSC 25143.2/,9
		Empty containers	CCR 66261.7	35		HSC 25143.10
		Used oil management	CHSC 25250.4	36		HSC 25187(a)(1)
-		Used oil filter management	CCR 66266.130	37	Closure requirements	CCR 66265.111/114
		Used battery management	CCR 66266.81	38		HSC 25189.6
_	_	Contaminated textile management	HSC 25144.6	39	Other violation(s)	Markey and a 7 Court of the
-		Container inspection - weekly	CCR 66265.174	╂┈┤	HAZARDOUS MATERIALS H	ANDLER
-		Tank inspection - daily	CCR 66265.195	50	Contingency plan/inventory submitted 1	HSC 25503.5
_		Tank operating requirements	CCR 66265,194	51	Plan and inventory updated & accurate	ISC 25505
	4	EPA ID number[submit DTSC form 1358]	CCR 66262.12	52	4 6 PROPERTY AND	ISC 25533(a)
	_	Hazardous waste transported with manifest	CCR 66262.20	$\sqcup$	ABOVEGROUND PETROLEUM ST	ORAGE TANK
	_	Hazardous waste manifest complete	CCR 66262.23(a)	60	SPCC Plan Referral to RWQCB (213) 576-6600	ISC 25270.3
		Manifest copies to DTSC	CCR 66262.23(a)(4)	70	PERMIT REQUIRED - Submit UP Forms	Co Ord 12.50.075
]	N	O SIGNIFICANT VIOLATIONS	OBSERVED ON	DA'	TE OF INSPECTION.	•
	Notice inist	ETURN CERTIFICATION OF Comp. The items checked are in violation. A reinspect rative/clvil/criminal penalties. Any three granted for proper and illegal for any County officer, exper solicitations include requests for anythir or beverages. Any attempt by a County error y manager responsible for supervising the experiments.	OMPLIANCE FO Jon tray occur at any time or correction of the violation imployee or inspector to ng of value such as case inployee to solicit bribe	ED to ver to (s) d o soll sh, di	MUST BE CORRECTED BY	ther agencies.  ning their official duties tancible items such as
	N R national sinistrum properties in propert	ETURN CERTIFICATION OF Common the items checked are in violation. A reinspect rative/clvil/criminal penalties. Any thre granted for any County officer, exper solicitations include requests for anythir or beverages. Any attempt by a County erry manager responsible for supervising the common temperature.	OMPLIANCE FOR SIGNATION (S) CITTO OMPLIANCE FOR SIGNATURE OF CONTROL OF THE PROPERTY OF THE PR	DUN to ver to soll o soll es, gi Hoti	DON BACK OF THIS NOTICE.  ify compliance. Non-compliance could result in reinspection fees not preclude any enforcement action by this Department or counts, free services, paid travel or entertainment, or its or gratuities for any reason should be reported im ne at (800) 544-6861 or <a href="https://www.lacountyfraud.org">www.lacountyfraud.org</a> .	ther agencies.  ning their official duties tancible items such as
	N R national sinistrum properties in propert	ETURN CERTIFICATION OF Common the items checked are in violation. A reinspect rative/clvil/criminal penalties. Any thre granted for any County officer, exper solicitations include requests for anythir or beverages. Any attempt by a County erry manager responsible for supervising the common temperature.	OMPLIANCE FOR STATE OF THE PROPERTY OF THE PRO	DUN to ver to soll o soll es, gi Hoti	DON BACK OF THIS NOTICE.  If your pliance. Non-compliance could result in reinspection fees not preclude any enforcement action by this Department or or country. The services, paid travel or entertainment, or its or gratuities for any reason should be reported im the at (800) 544-6861 or <a href="https://www.lacountyfraud.org">www.lacountyfraud.org</a> .	ther agencies.  Thing their official duties tangible items such as mediately to either the
] eni isnpooo	N R Intio In	ETURN CERTIFICATION OF Com: The items checked are in violation. A reinspect rative/civil/crivinal penalties. Any three granted for improper and illegal for any County officer, expers solicitations include requests for anything or beverages. Any attempt by a County error beverages. Any attempt by a County error manager responsible for supervising the company of the	OMPLIANCE FO  OMPLIANCE FO  ion may occur at any time representation of the violation  mployee or inspector to ng of value such as cas inployee to solicit bribe employee or the Fraud  OBSER  LIFY  OF CONTINE	ED to vere to	DON BACK OF THIS NOTICE.  ify compliance. Non-compliance could result in reinspection fees not preclude any enforcement action by this Department or counts, free services, paid travel or entertainment, or its or gratuities for any reason should be reported im ne at (800) 544-6861 or <a href="https://www.lacountyfraud.org">www.lacountyfraud.org</a> .	ther agencies.  The province of the second s



# 2009 HAZARDOUS WASTE SUMMARY

**MANIFEST TOTAL** 

53

QTY/LBS TOTAL

6513

QTY/GALS TOTAL

11640

**QTY/TONS TOTAL** 

51.7953

**RECYCLED TOTAL** 

(lines)

46

(manifests)

33

### MONTHLY TOTALS IN POUNDS of RCRA HAZARDOUS WASTE

MONTH	LBS	MONTH	LBS
JANUARY	1137.4	JULY	1194.1
FEBRUARY	0.0	AUGUST	458.7
MARCH	0.0	SEPTEMBER	0.0
APRIL	2094.0	OCTOBER	620.4
MAY	0.0	NOVEMBER	458.7
JUNE	1583.8	DECEMBER	754.9



# 2008 HAZARDOUS WASTE SUMMARY

MANIFEST TOTAL

24

QTY/LBS TOTAL

5700

QTY/GALS TOTAL

4945

**QTY/TONS TOTAL** 

23.47065

**RECYCLED TOTAL** 

(lines)

16

(manifests)

q

# MONTHLY TOTALS IN POUNDS of RCRA HAZARDOUS WASTE

MONTH	LBS	MONTH	LBS
JANUARY	Х	JULY	170.0
FEBRUARY	Х	AUGUST	1650.4
MARCH	Х	SEPTEMBER	200.0
APRIL.	Х	OCTOBER	2369.8
MAY	0.0	NOVEMBER	538.7
JUNE	2057.1	DECEMBER	0.0

November 24, 2009

Mr. James Polek RCRA Enforcement Office (WST-3) U.S. EPA, Region 9 San Francisco, CA. 94105

Dear Mr. Polek:

Thank you for this opportunity to demonstrate our commitment to having a fully compliant hazardous waste management program. The deficiencies in our program that were noted in the closing briefing during your visit and your subsequent report that we received on October 29, 2009, have shown us where we were lacking. Since your visit, we have been working diligently to bring our program up to full compliance, with many of the noted deficiencies being mitigated within the week after your visit. We have corrected the remaining areas of deficiency that were noted in the Notice of Violation and we are now fully compliant.

We look forward to future visits and the opportunity to work together to ensure a workplace safe for our employees and the environment. Thank you again.

Sincerely,

William Woolley

EHS Manager, Spacex

Grant Ingram

Director of Quality Assurance and EHS, Spacex

Gwynne Shotwell President, Spacex



# VIOLATION MITIGATION DOCUMENTATION

November 24, 2009

This document will address the five violations listed in the Notice of Violation document that was received by our facility on October 29, 2009, which was the result of the July 13, 2009 visit. These explanations are accompanied by the relevant requested documentation.

 Provide photographs documenting that the containers are properly labeled, as required by 22CCR§66262.34(f), in the following satellite accumulation areas: PICA Laboratory and Avionics Area. Certify that all hazardous waste containers at your facility are properly labeled.

We have reviewed our usage of the red flip-top lid cans and found that many were being used incorrectly. We have now identified the specific waste streams that are used by different departments and have labeled the waste containers appropriately. The importance of the accumulation start dates were stressed to the affected employees. Please examine the accompanying photographs, numbered 1-11, to see that we are now in compliance with the regulations that all waste containers are labeled and closed. The majority of the red, and some yellow, flip-lid cans are used only to contain soiled rags that are picked up and laundered by Aramark. From a suggestion made during the July visit, all containers that hold the soiled rags are now labeled, "Soiled Rags for Laundry" as they are not considered a hazardous waste. In the Avionics Department, it was noted that there were red cans labeled FOD and that they were not labeled correctly. FOD, which stands for Foreign Object Debris, which leads to Foreign Object Damage, is an aerospace term. Basically, the red FOD cans in the Avionics department are just trash cans that do not contain hazardous waste. There is an accompanying sheet with more of a FOD explanation.

2. Provide a hazardous waste determination of the "Alodine only" container in the Spin-form Area and the cutting oil and unknown material in the Machine Shop.

The five gallon pail that said "Alodine only" on it was removed to the hazmat area the same day as the July visit. The material was determined to be waste Alodine and was transported from our facility as noted on manifest #006078583. A copy of the manifest accompanies this document and is numbered 1. The cutting oil from the machine shop was removed to the hazmat area the same day as the July visit. The photographic proof of the revised closed, labeled container system was sent to you, via e-mail, on July 21, 2009. The record of the proper disposal of the cutting oil is found on line 2, of manifest #000765399. A copy of the manifest accompanies this document and is numbered 2. The unknown material in the machine shop was identified as new product, a Vactra Oil, which was being used in the maintenance of the machine it was next to. The employee who had placed the oil in the un-marked container and

Contains Sensitive Proprietary and Confidential Information – Not for Further Distribution Without the Express Written Consent of Space Exploration Technologies



had left it by the machine was talked to and the material was moved right away to the proper storage location and placed back in the correct, labeled drum.

3. Provide copies of the land disposal restriction notifications for hazardous waste shipped from your current facility.

Copies of all LDR's for EPA # CAR000191536, the waste number for 1 Rocket Road, Hawthorne, CA. accompany this document. Another copy is attached to the matching manifests so now our records are up to date.

Submit a copy of the revised portion of Spacex's contingency plan that includes arrangements
with emergency responders and includes descriptions and locations of emergency equipment
throughout the facility.

Our revised contingency plan accompanies this document. Additional documents accompany the contingency plan. They are as follows:

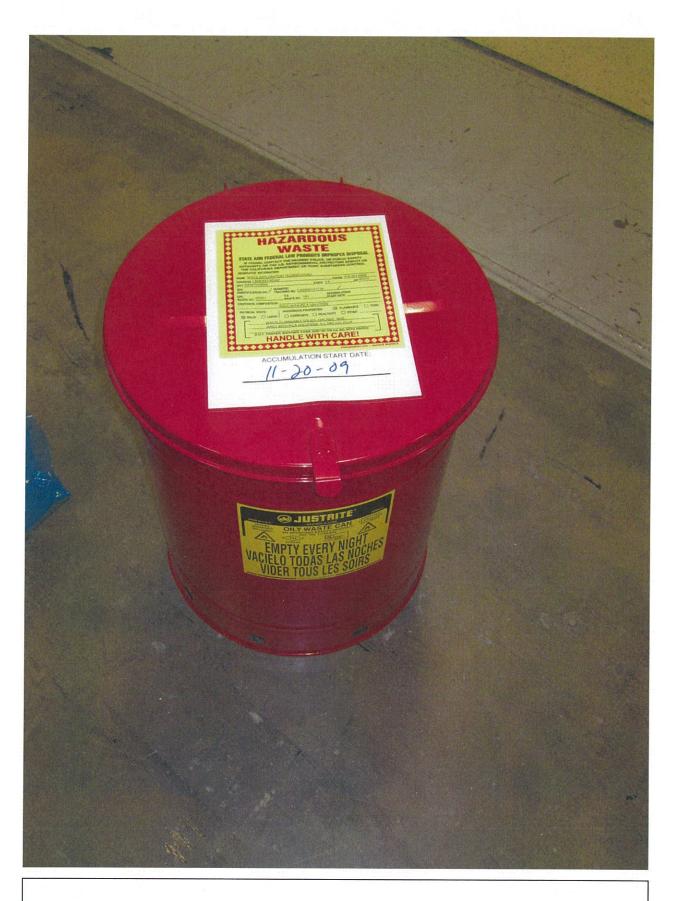
**Emergency Response Team explanation** 

Photograph of one of the two large signs from our hazardous waste contractor indicating their 24hr emergency number.

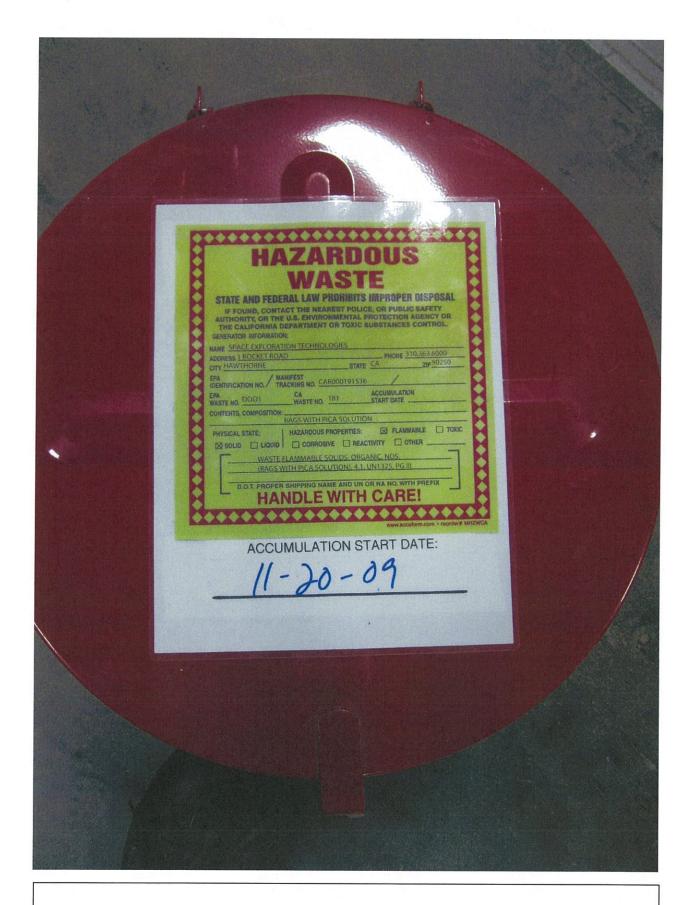
An explanatory document for the five facility maps, and the five facility maps, that indicate the locations of emergency response equipment throughout our facility.

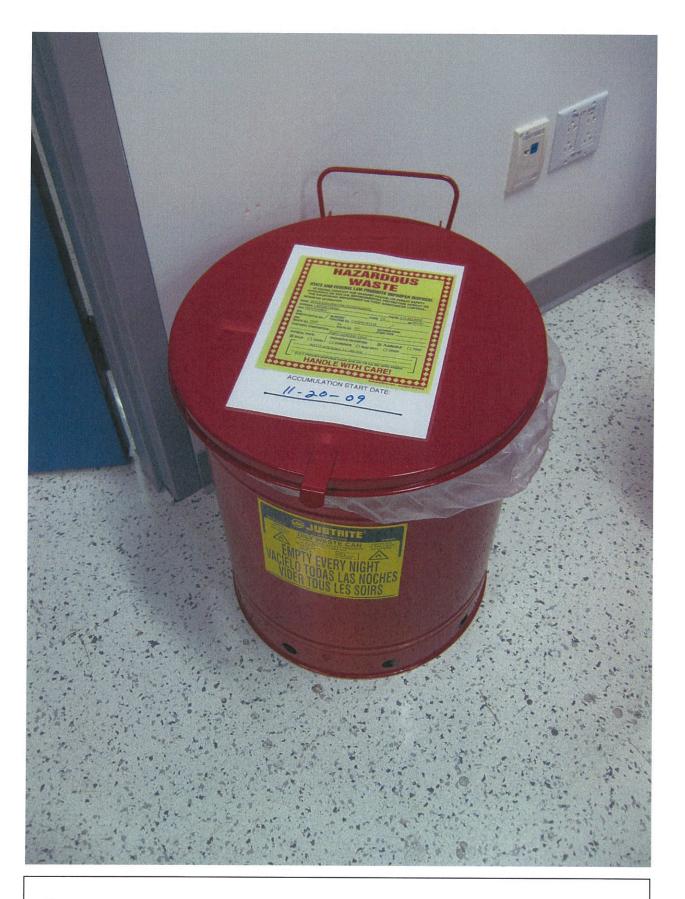
5. Submit a copy of the training plan for personnel conducting hazardous waste management activities, as required by 22CCR§66265.16.

Documents indicating the training requirements for Hazardous Materials Technicians, the names of the Hazardous Materials Technicians and their training certifications, and copies of the training certifications, prove compliance with the regulation.



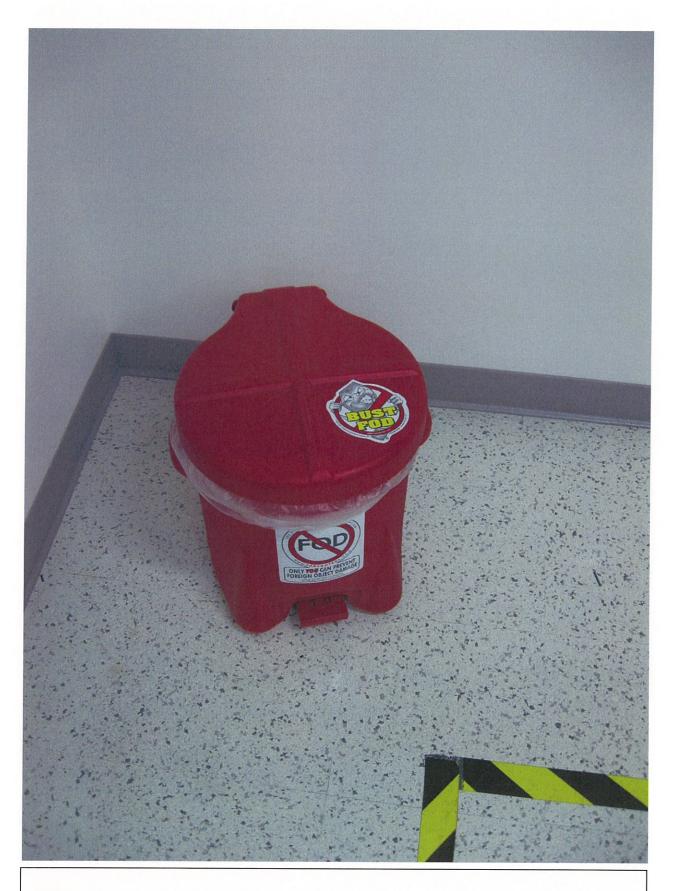
PICA LAB - Labeled red can with identified waste stream.







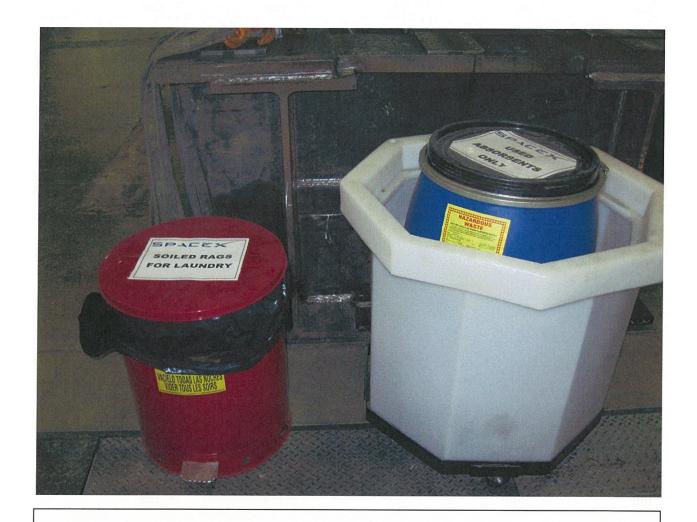
**AVIONICS CLEAN ROOM** – Close-up of label. Start date changed after every pick-up.



 $\textbf{AVIONICS CLEANROOM} - \text{FOD can}. \ \ \text{Aerospace industry, non-hazardous trash can}.$ 

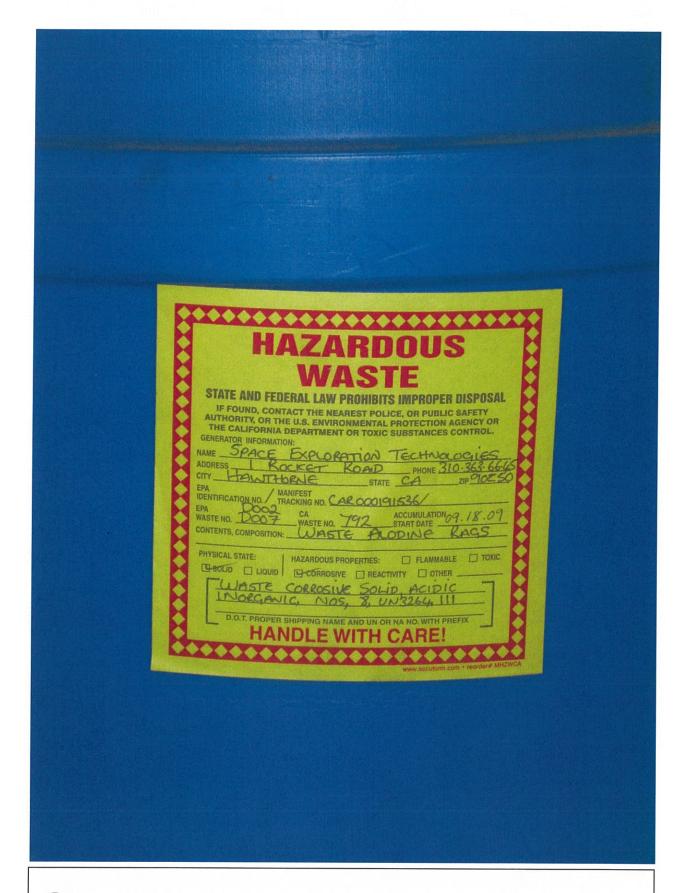


**THROUGHOUT FACILITY** - The red, and yellow, cans throughout the facility are used only for soiled rags that are laundered by Aramark. They do not contain hazardous waste. The wording on the cans, and the accumulation box in the hazmat area, came from a suggestion by the inspection team during the July 2009 visit.



**STRUCTURES TEST AREA** – Soiled rag can and a labeled, used absorbents can.







**HAZMAT AREA** – Labeled waste fluorescent lamp box.



**HAZMAT AREA** – Closed, Labeled, universal waste box, lamps.

### FOD Defined



Foreign Object Debris (FOD) is a substance, debris or article alien to the vehicle or system which would potentially cause damage.

Foreign Object Damage is any damage attributed to a foreign object that can be expressed in physical or economic terms that The National Aerospace FOD Prevention, Inc. may or may not degrade the product's required safety and/or performance characteristics. Typically, FOD is an aviation term used to describe debris on or around an aircraft engine damage caused by the aircraft or damage done to an aircraft.

Source: Wikipedia



An engine from a US Navy A-6E that crashed shortly after takeoff

FOD has been part of accidents and unscheduled maintenance reports since the earliest days of flight. Propeller nicks, tire damage, and fabric tears go way back. But the problem of foreign objects really came into focus with the introduction of the jet engine.

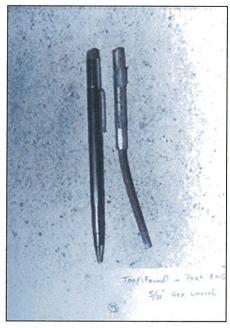
FOD includes loose hardware, tools, parts, pavement fragments, catering supplies, building materials, rocks, sand, pieces of luggage, pens, coins, badges, hats, soda cans, paper clips, rags, trash, paperwork and even wildlife. Anything that can find its way into an aircraft engine or flight control mechanisms is a recipe for foreign object damage.

And, this damage can result in anything from minor repairs to catastrophic events. FOD can be found anywhere in the aviation environment--from the manufacturing plant to airport terminal gates, cargo aprons, taxiways, runways, and run-up pads.

estimates the cost of FOD to the global aerospace industry at \$4 billion annually. These dollars are spent largely repairing ingestion of foreign objects from runways.

#### Perhaps most importantly, FOD is preventable.

For more information on FOD, check out these resources.



The hex wrench, found inside the engine, that crashed it

Source for images: Naval Safety Center

orm designed for use on elite (12-httph) typewriter.)				Form	Approved. C	MB No. 2	050-0039
zarbous 1. Generator ID Number 1 3 200 2. Page 1 of 3. Er	nergency Respons	e Phone	4. Manifest			) []	V
ANIFEST CAROPO191536 - 1	800-618	8-8830	100	the etc. if	8583	3 11	N
	ator's Site Address	s (if different th	an mailing addres	ss)			
The state of the s	Rocket I		V00E0				
Hawthorne, CA 90250	wthorne,	, CA S	70250				
Generator's Phone: 310 - 363 - 6000 6. Transporter 1 Company Name			U.S. EPA ID N	lumber			
			CINDO	00111	592		
SOS Ecology Management. 7. Transporter 2 Company Name			U.S. EPA ID N	lumber	or or iz		
•			U.S. EPA ID N	lumbor			
8. Designated Facility Name and Site Address			U.S. EPA ID I	vumber			
Siemens Water Technologies Corp. 5375 S. Boyle Ave.							
Los Angeles, CA 90058			1	CAF	097030	002	
CALLUS DOT Description (including Proper Shipping Name, Hazard Class, ID Number,	10. Conta	ainers	11. Total	12. Unit		/aste Codes	
9a. HM and Packing Group (if any))	No.	Туре	Quantity	Wt./Vol.	15. 4	asic codes	
1 Waste Corresive Liquid, Adidic, Inorganic,	001	In-	nne	1.	D002	D007	141
X nos, (Sulfrig Acid, Chromic Acid), 8, UN3264,	001	197	000	()			
1.000	1 7	+			\mune	101	
2 Hazardous waste, solid, n.o.s., (Rags with X Alodine/Chromium), 9, NA3077, PGIII	ADI	DF	050	0	\D007	181	
A CLASSICAL CONTRACTOR OF THE	900			ļ ·			
3 NON RCRA HAZARDOUS WASTE , SOLID (Filters)	1001	0-	700	0		352	4
	001	OF	300	1			
				-		-	
4.							
14. Special Handling Instructions and Additional Information					L		
1) P179098 2) AP169389 3) 35072847B		31 - 2 ft - 1	SOS#761				ĺ
ALL BILLING SOS ECOLOGY MANAGEMENT. WEAR APPROP		RSONAL 3701	PROTECT	IVE E	QUIPME	NT.	
25/8/8				nipping name	e, and are class	sified, packa	aged,
<ol> <li>GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are full marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable</li> </ol>	nternational and n	ational governi	mental regulations	. If export sh	ipment and I a	m the Prima	iry
Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgm I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator	ent of Consent.			ξ.	•		
Generator's/Offeror's Printed/Typed Name Signature	1.	12	and the same of th		Mon		
Mark Drop	WID	15			10	0	7 57
6. International Shipments Import to U.S. Export from U.S.		entry/exit:					
ransporter signature (for exports only):	Date lea	aving U.S.:					
17. Transporter Acknowledgment of Receipt of Materials  Signature  Signature	1 6		1	, , ,	Mon	th Day	Year
Fransporter 1 Printed/Typed Name  A DF (AND) CA DE LLO MI  Signature	1/00/A	200	(-40 E/	54	, 10	0 107	109
Transporter 2 Printed/Typed Name Signatur	e/ <del>)    </del>	-		)	Mon	th Day	Year
	/					1	
18. Discrepancy							
18a. Discrepancy Indication Space Quantity Type	Residue		Partial Re	ejection		Full Rej	ection
	20 Spec 146						
Ol. All	Manifest Referen	nce Number:	U.S. EPA ID	Number			
18b. Alternate Facility (or Generator)							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)					Mo	nth Day	y Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and	recycling systems	s)	14.				
1. 2. 3.	HILL	10	14.	1			
and the state of t	except as noted in	Item 18a		11			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest of Printed/Typed Name  Signature  Signa	e	1	11	1	7 CA SA	nth Day	Year
theren there!	10	7	Mil		97	ナク	2794

Form Approved. OMB No. 2050-0039 (Form designed for use on elite (12-pitch) typewriter. 4. Manifest Tracking Number 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone HAZARDOUS 800-618-8830 CAR000191536 TE MANIFEST nerator's Name and Mailing Address Generator's Site Address (if different than mailing address) Space Exploration Tech. 1 Rocket Rd. I Rocket Road Hawthorne, CA 90250 Hawthorne, CA Generator's Phone: 310 363-6000 U.S. EPA ID Number 6. Transporter 1 Company Name SOS Ecology Management CAR000111583 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number DeMenno/Kerdoon 2000 N. Alameda Street Compton, CA 90222 Facility's Phone: 310-537-7100 CAT080013352 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) Quantity Wt. Vol INON RCRA HAZARDOUS WASTE LIQUID (WASTE 223 GENERATOR WATER/COOLANT) THIS WASTE STREAM HAS BEEN QUALIFIED FOR RECYCLING/TREATMENT AT THE DeMENNO/KERDOON FACILITY IN COMPTON, CALIFORNIA. THIS FACILITY HAS THE NECESSARY PERMITS TO RECEIVE YOUR WASTE STREAM AS QUALIFIED. OUR EPA NUMBER IS CATOROO13352 14. Special Handling Instructions and Additional Information 2) ALL BILLING SOS ECOLOGY MANAGEMENT. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Generator's/Offeror's Printed/Typed Name Signature Month Mark Drop 16. International Shipments \_\_\_\_Import to U.S. Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.: 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature Month Day Year BELARIO Transporter 2 Printed/Typed Name Signature Month Day 18. Discrepancy 18a. Discrepancy Indication Space Туре Quantity Residue Partial Rejection Full Rejection

Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number FACILITY Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Month Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Signature EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO** 

# Unified Program (UP) Form CONSOLIDATED CONTINGENCY PLAN

## **SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN**

			l.	FACIL	ITY IDI	ENTIF	ICATION	J		
BUSINESS NA SPACE EXPLO	ME DRATION TECHN	IOLOG	∋ies				,	3	FACILITY ID#	1
SITE ADDRES				·		103	CITY	104 DRNE	ZIP CODE 10 90250	15
			II.	EMERO	BENCY	CON	TACTS	***************************************		
	PRIMA	RY						CONDARY		
NAME				123	NAME			<u> </u>	12	28
WILLIAM WOO	LLEY			120		T INGR	RAM		12	.0
TITLE			146	124	TITLE				12	29
EHS MANAGEI	R					TOR O	F QUALIT	Y ASSURANCE A		
BUSINESS PH	ONE			125	BUSIN	ESS P	HONE		13	30
310.363.6645						3.6256				
24-HOUR PHO	NE			126		UR PHO			13	11
310.956.0673				107	562.74					
PAGER#				127	PAGEF	₹#			13:	.2
		VIER	SENCY R	ESPON	SE PLA	ANS A	ND PRO	CEDURES		
Α	Notifications									
Your business is	s required by Stat	e Law	to provide	an immedi	ate verb	al repor	rt of any re	lease or threaten	ed release of a	$\neg$
hazardous mate	erial to local fire e	merge	ncy respons	se personr	nel, this l	Jnified I	Program A	gency (CUPA or	PA), and the	
Office of Emerg	ency Services. If	you h						us materials, imm	ediately call:	
					IE: 911					
AFTER the loca	l emergency resp	onse	personnel a	re notified	, you sha	all then	notify this	Unified Program	Agency and the	
Office of Emerg			(000) 000	40.45						
Local Unified Pr			(323) 890-		140\ 000	4004				
	Emergency Servic	e.		-7550 or (9	10) 202	-1021				
National Respon			(800) 424						***********	
	Information to be									
			d the Telepi				you are ca	ılling.		
			of the relea							
	Date, tim	e, cau	se, and typ	e of incide	nt (e.g. f	ire, air r	release, sp	oill etc.)		l
	Material:	and qı	antity of the	e release,	to the ex	tent kr	nown.			
	<ul> <li>Current of</li> </ul>	condition	on of the fac	cility.						
	Extent of	injurie	s, if any.							
	Possible	hazar	ds to public	health and	d/ or the	environ	ment outs	ide of the facility.		
В.	<b>Emergency M</b>	ledic	al Facility	V						ヿ
List the	local emergency	nedica	al facility the	at will be us	sed by y	our bus	iness in th	e event of an acc	ident or injury	$\overline{}$
	by a release or th								, ,	
HOSPITAL/CLIN							PHO	NE NO:	WHAT I	$\neg$
U.S. HEALTHW	ORKS				····		310-	640-9911		
ADDRESS: 390 N. SEPULV	EDA BLVD.STE	1000								
CITY:							7IP (	CODE:		$\dashv$
EL SEGUNDO							9024			
							1 00-1		***************************************	
OFFICIAL USE ON	LY		DATE RECE	IVED			REVI	EWED BY	**************************************	
DIV	DN	CTA		OTLIED		DIOTO				$\exists$
DIV	BN	STA		OTHER		DISTRI	UI .	CUPA	PA	

# Unified Program (UP) Form CONSOLIDATED CONTINGENCY PLAN

## **SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN**

C.	Private Emergen	cy Res	ponse				
DOES	YOUR BUSINESS HA	VE A PR	IVATE ON-SITE EN	ERGENCY	RESPONSE TEAM?	⊠ Y	es 🗌 No
	If yes, provide an atta	chment t	hat describes what	policies and	procedures your bus	iness will	follow to notify your
	on-site emergency res						
CLEA	NUP/DISPOSAL CONT						
	List the contractor that	t will prov	ide cleanup service	s in the even	t of a release.		
NAME	OF CONTRACTOR:	· · · · · · · · · · · · · · · · · · ·			PHONE N	10:	
	COLOGY MANAGEME	NT			310-618-8	3830	
ADDRI							
201 E. CITY:	GARDENA BLVD						PHONE LA
GARDI	ΞΝΛ				ZIP CODE	=:	
D.	Arrangements Wi	ith Eme	raanay Bashan	dore	90248		
<i>D</i> .	If you have made spec				av polico dopartment	fire denor	tmont boonital
	contractor, or State or	local em	ergency response to	nents with a	inate emergency serv	, irre depar vices desc	tinent, nospital, Prihe those
	arrangements on the I			am to coord	mate emergency serv	11003, QC3C	aribe mose
	AVE AŇ ARRANGEMI	ENT WIT	TH SOS ECOLOGY	MANAGEN	MENT TO RESPON	D TO A I	ARGE SPILL OR
	CAL RELEASE. WE DNSE PHONE NUMBE	: HAVE	1WO LARGE SIG	NS POSTEI	AT OUR FACILIT	Y THAT	SHOW THE 24hr
INDICA	TED THAT THEY HAV	/E THE A	BILITY TO RESPO	ND WITHIN .	TWENTY MINUTES :	TO AN EM	IERGENCY CALL.
OUR C	ONTACT AT SOS ECC	DLOGY N	MANAGEMENT IS V	IRGINIA ALE	EJANDREZ @ 310-69	98-1151	
E.	Evacuation Plan						
		مطالنييل			5 1) 1		
i. ine	following alarm signal(s	s) will be	used to begin evact	lation of the	racility ( <i>cneck all whic</i>	en appiy):	
⊠ Verb	pal 🔲 Telephone (inc	ludina ce	<i>llular</i> ) ⊠ Alarm Svs	em 🖾 Publ	ic Address System [	Intercor	1
	ers 🛛 Portable Radio				o radioco cyclom L		•
			. (0,000.,7).				
2. 🛛 E	vacuation map is promi	nently dis	splayed throughout t	he facility.	**************************************		
2 🖂 🗀	dividual/a) rannandihla	for 0000					
	dividual(s) responsible	TOF COORD	inating evacuation is	ncluaing spre	eading the alarm and	confirming	the business has
peen e	/acuated:	Lecus	DITY MANAGED				
	ROBERT ELLINGTON WILLIAM WOOLLEY,						
	JOE MULLIN, FACILIT						
<u>F </u>	Earthquake Vulne						
	Identify areas of the fa-					spection o	or isolation
<b>-</b>	because of the vulnera	-	•			_	
	Hazardous Waste/ Haz	_		eas 📙	Production Floor	$\boxtimes$	Process Lines
	Bench/ Lab		Waste Treatment		Other:		
	Identify mechanical sys					inspection	or isolation
	because of the vulnera		· · · · · · · · · · · · · · · · · · ·	rouna motior		<b></b>	
	Utilities		Sprinkler Systems		Cabinets		Shelves
	Racks		Pressure Vessels		Gas Cylinders	$\boxtimes$	Tanks
$\boxtimes$	Process Piping		Shutoff Valves		Other:		

#### Unified Program (UP) Form CONSOLIDATED CONTINGENCY PLAN

#### SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

#### G. **Emergency Procedures**

Briefly describe your business standard operating procedures in the event of a release or threatened release of hazardous materials:

1 PREVENTION (prevent the hazard) - Describe the kinds of hazards associated with the hazardous materials present at your facility. What actions would your business take to prevent these hazards from occurring? You may include a discussion of safety and storage procedures.

The primary hazardous materials onsite are compressed gasses, the vast majority of which are non-flammable.

The primary hazard of compressed gasses, in a leak scenario, would be atmospheric in that they could displace Oxygen.

Any enclosed workspaces that utilize compressed gasses, are monitored for Oxygen content.

All compressed gasses, that are not in use, are stored in marked, designated areas with proper storage distances observed.

All flammable liquids are stored in proper, grounded containers and are stored in areas with secondary containment.

All hazardous waste is stored in a dedicated area with secondary containment and spill control supplies.

MITIGATION (reduce the hazard) - Describe what is done to lessen the harm or the damage to person(s). property, or the environment, and prevent what has occurred from getting worse or spreading. What is your immediate response to a leak, spill, fire, explosion, or airborne release at your business?

The primary storage area for the on-site hazardous materials is separate and distant from normal work areas.

In the event of an emergency, the natural distance of employees from the potential hazards lessens the possible injuries. The immediate response to an emergency is to determine the location, type and severity of the emergency and call 911 if needed.

In the event of a leak or spill, we will isolate the spill, determine the cause and severity, and ensure employee safety. Our hazardous waste contractor will be called to mitigate a large spill.

In the event of a fire, fire extinguishers and good judgment can be utilized on a small incident for mitigation.

For an airborne release, distance and ventilation will be utilized to mitigate the hazard.

ABATEMENT (remove the hazard) - Describe what you would do to stop and remove the hazard. How do you handle the complete process of stopping a release, cleaning up, and disposing of released materials at your facility? In the event of a small, liquid spill, spill containment products, proper PPE, and training will control the problem.

Saturated absorbents will be contained properly and handled by our hazardous waste disposal contractor.

A large spill will be handled by our hazardous waste disposal contractor.

All spill/release incidents will be fully documented and kept in hardcopy form as well as in an online archive.

Since we have designed and installed the equipment that could be involved in an incident, we have designed in safeguards to lessen the probability of such an incident.

We also have intimate knowledge of our systems in our facility to know what to shut off, where, in the event of a release or spill.

All mechanical systems will be completely inspected and tested prior to being placed back online after an incident.

# Unified Program (UP) Form CONSOLIDATED CONTINGENCY PLAN

### SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

### IV. Emergency Equipment

22 CCR, Section 66265.52(e) [as referenced by Section 66262.34(a)(3)] requires that emergency equipment at the facility be listed. Completion of the following Emergency Equipment Inventory Table meets this requirement.

the facility	be listed. Completion of the following Eme	ergency Equipn	ment Inventory Table meets this requirement.
	EMERGENCY EQUIPME	NT INVENTO	RY TABLE
1. Equipment	2. Equipment	3.	4.
Category	Туре	Location *	Description**
Personal	☐ Cartridge Respirators	MAP 5, 2-8	1/2 MASK AND FULL-FACE NEGATIVE PRESSURE
Protective,		MAP5,	O2 MONITORS, FOUR GAS MONITORS, GASTEC
Equipment, Safety	El chandada de la companya de la com	3,5,7,10	AIR SAMPLING SYSTEM
Equipment,	☐ Chemical Protective Aprons/Coats	MAP5, 2,4,6	NITRILE, NEOPRENE, SPLASH AND RESISTANT
and	☐ Chemical Protective Boots	MAP5, 6	NEOPRENE
First Aid	☑Chemical Protective Gloves	MAP 5, 2-9,11	NITRILE, LATEX, BUTYL, PVC
Equipment	⊠ Chemical Protective Suits (describe)     ⊠Face Shields	MAP 5, 6	CHEMICAL SPLASH
_4		MAP 5,2-8,11	POLYCARBONATE SHEILD, RATCHET HEADGEAR
	<ul> <li>☑ First Aid Kits/Stations (describe)</li> <li>☑ Hard Hats</li> </ul>	ALL AREAS	ANSI Z308.1-1998 COMPLIANT
		MAP 5,2-8,11	ANSI Z89.1-2003 COMPLIANT
	☑Plumbed Eye Wash Stations	MAP 4	BRADLEY PEDESTAL – ONE FAUCET MOUNT
	☑ Portable Eye Wash Kits (i.e. bottle type)	MAP 4	EYESALINE 32OZ DOUBLE STATIONS
	□ Respirator Cartridges (describe)	MAP 5,2-8	ORGANIC VAPOR/ACID GASSES
		ALL AREAS	ANSI Z87.1-2003 COMPLIANT / NON-VENTED
	Safety Showers     Safe Contained Breathing Assessment (2008)	MAP 4	BRADLEY COMBINATION WITH EYEWASH
	☐ Self-Contained Breathing Apparatuses (SCBA)		
Fire	Other (describe)	ALL ADEAG	
Extinguishing		ALL AREAS	FULL FACILITY FIRE SPRINKLER SYSTEM
Systems		MAP 5, 10	MONITORED 24/7 BY OUTSIDE COMPANY
Oystoms	Fire Extinguisher Systems (describe)		
Spill	Other (describe)	NAD 500 44	NEW BIO MAZO COOK OF THE DEL
Control		MAP 5,2-9, 11	NEW PIG MATS, SOCKS, LITE-DRI
Equipment	☐ Decontamination Equipment (describe)	MAP 5,2, 4-6	NEW PIG SOCKS AND POLY DIKES
and	The state of the s		***************************************
Decontamination	Emergency Tanks (describe)		
Equipment	Exhaust Hoods		
—	Gas Cylinders Leak Repair Kits (describe)		
	☐ Neutralizers (describe)  ☑ Overpack Drums	MADEC	NEWBIO
		MAP 5, 6	NEW PIG
	☐ Sumps (describe) ☐ Other (describe)		
Communications	☐ Other (describe) ☐ Chemical Alarms (describe)		
and			
Alarm	☐ Intercoms/ PA Systems	ALL ADDAG	CARRIED BY ALL SCOURSE SAN THE
Systems	<ul><li>☒ Portable Radios</li><li>☒ Telephones</li></ul>	ALL AREAS	CARRIED BY ALL SECURITY, FACILITIES, SAFETY
-,5.00	☐ Underground Tank Leak Detection Monitors	ALL AREAS	VOIP COMPANY PHONES, CELLS, SAT PHONE
	Other (describe)		
Additional	☐ Other (describe)		
Equipment			
Use Additional			
Pages if	MATERIAL PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDR		
Needed.)			
1000001,			

<sup>\*</sup> Use the Location Codes (LC) from the Site Map(s) prepared for your Contingency Plan.

<sup>\*\*</sup> Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, numbered appropriately, if needed.



# **EMERGENCY RESPONSE TEAM**

REV - 11/09

The Spacex on-site Emergency Response Team consists of the following members:

All uniformed Security personnel

The Security Manager

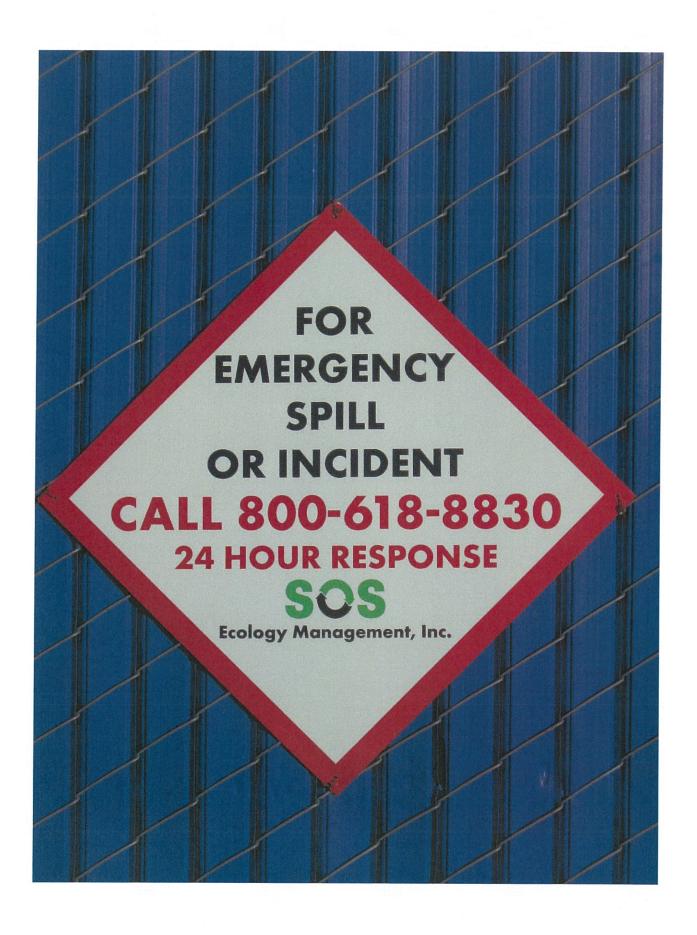
All Facilities personnel, including the three Hazardous Materials Technicians

The Facilities Manager

The EHS Manager

All of the above employees are connected at all times by multi-channel radios that are used to relay information regarding any emergency situations throughout the facility. In the event of a hazardous materials release or spill, the hazardous materials technicians will be alerted to assess the situation. They will determine the material involved and the extent of the release or spill. The area will be made safe and spill containment products will be used to limit the extent of the spill. At this point, the determination will be made to clean up in house or call our waste management contractor to come out and assist. In general, spills of less than 100 gallons will be handled by our on-site emergency response team. A complete investigation and corrective action plan will be implemented, and documented, for every hazardous materials release or spill. This report will be stored in hard copy in the EHS Department as well as in an online archive.

In the event that an emergency evacuation is required, the Emergency Response Team will be assisted by the Factory Safety Team, a safety committee that consists of managers, supervisors and hourly personnel, some of which are already members of the Emergency Response Team.





# **FACILITY MAPS EXPLANATIONS**

REV- 11/09

MAP 1 - This is the Hawthorne facility primary Evacuation Map.

MAP 2 - This map indicates the areas for the major workplace hazards at the Hawthorne facility.

MAP 3 – This map indicates the primary facility components and their locations.

MAP 4 – This map indicates the locations of the emergency equipment at the Hawthorne facility. This map is referenced in the "Location" column on the Emergency Equipment Inventory Table.

**MAP 5** – This map is the primary reference cited in the "Location" column on the Emergency Equipment Inventory Table. Here is the key for the map:

**SECTION 1** – Shipping/Receiving, Inventory, Precision Inspection.

**SECTION 2** – Propulsion Department

**SECTION 3 – Structures Fab/Propulsion Welding** 

SECTION 4 - Structures Test Area

SECTION 5 - Tooling Machine Shop/Welding Area

**SECTION 6 – HAZMAT AREA** 

SECTION 7 - Structures Production Area

SECTION 8 - Structures Department/Composites Fab Shop

**SECTION 9** – Avionics Department

SECTION 10 - Front Office Area

SECTION 11 - Machine Shop

Contains Sensitive Proprietary and Confidential Information – Not for Further Distribution Without the Express Written Consent of Space Exploration Technologies

# 1 SPACEX

SPACE EXPLORATION TECHNOLOGIES

1 ROCKET ROAD

HAWTHORNE, CA. 90250

310.363.6000

# **EMERGENCY EVACUATION**



# 2 SPACEX

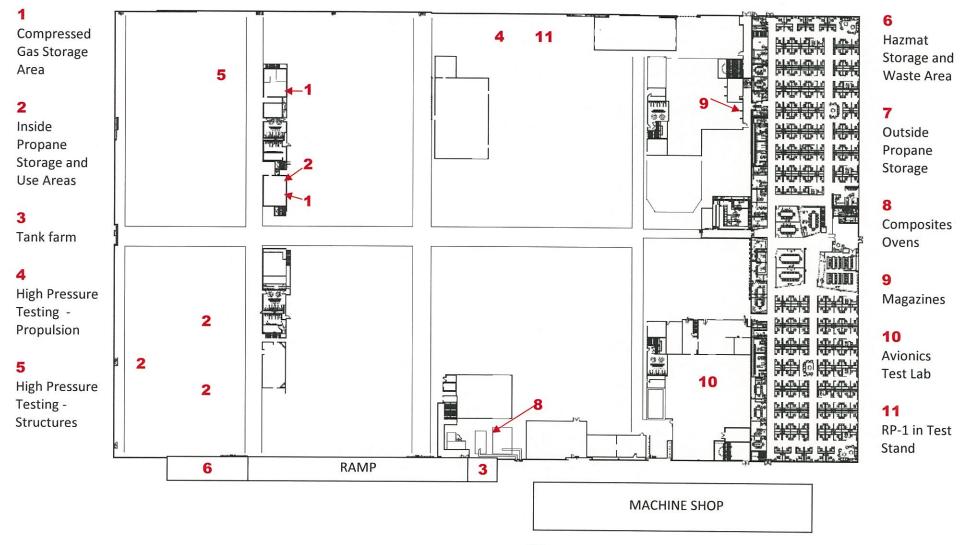
SPACE EXPLORATION TECHNOLOGIES

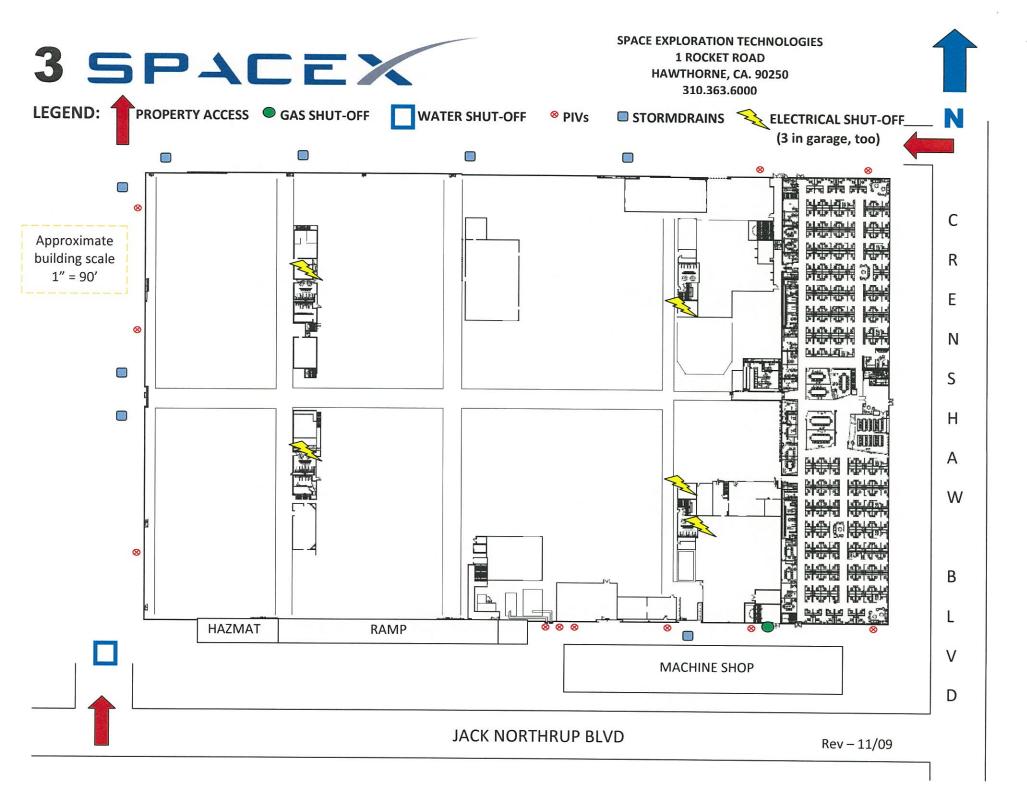
1 ROCKET ROAD

HAWTHORNE, CA. 90250

310.363.6000

# **MAJOR WORKPLACE HAZARDS**







SPACE EXPLORATION TECHNOLOGIES

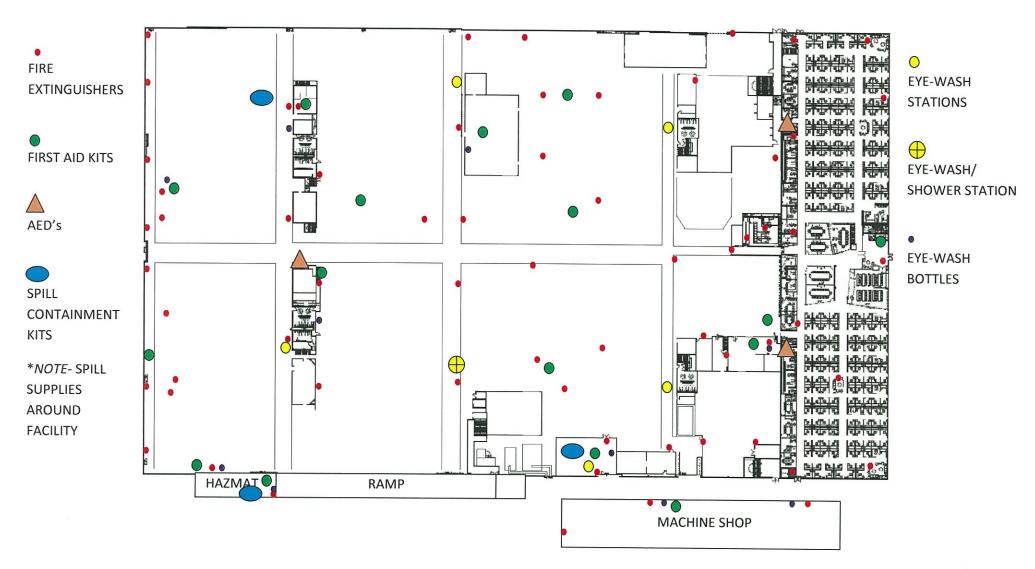
1 ROCKET ROAD

HAWTHORNE, CA. 90250

310.363.6000



# **EMERGENCY EQUIPMENT**





SPACE EXPLORATION TECHNOLOGIES

1 ROCKET ROAD

HAWTHORNE, CA. 90250

310.363.6000

# **Emergency Equipment Location Key**





## TRAINING REQUIREMENTS

#### HAZARDOUS MATERIALS TECHNICIAN

The hazardous materials technician is part of the Manufacturing Department and more specifically the Facilities division. They report to the Facilities supervisor, though the EHS Manager has broad oversight of their activities.

Training Requirements - General

All Spacex personnel are trained in at least Hazard Communication and Fire Safety. All Facilities personnel are also trained in at least Personal Protective Equipment and Lock Out/Tag Out. All Facilities personnel are also trained and certified Forklift Operators.

Training Requirements - Specific

All hazardous materials technicians are trained and certified, at a minimum, to this level:

RCRA Hazardous Materials Management, Federal and California (annual refresher training required)

DOT Hazardous Materials Management (annual refresher training required)

24 HR HAZWOPER Certification
( annual refresher training required)

Additional desired training:

40 HR HAZWOPER Certification
( annual refresher training required)

First Aid/CPR/AED Certification (certification good for two years)



### HAZARDOUS MATERIALS TECHNICIANS

Updated November 20, 2009

#### **DENNIS JONES** – FACILITIES SUPERVISOR/HAZARDOUS MATERIALS TECHNICIAN

Training - Specific

RCRA Hazardous Materials Management, Federal and California

**DOT Hazardous Materials Management** 

40 HR HAZWOPER Certification

First Aid/CPR/AED Certification

MARK DROP - HAZARDOUS MATERIALS TECHNICIAN/FACILITIES TECHNICIAN

Training - Specific

RCRA Hazardous Materials Management, Federal and California

**DOT Hazardous Materials Management** 

40 HR HAZWOPER Certification

ANDREW WALES - HAZARDOUS MATERIALS TECHNICIAN/FACILITIES TECHNICIAN

Training - Specific

RCRA Hazardous Materials Management, Federal and California

**DOT Hazardous Materials Management** 

40 HR HAZWOPER Certification

# Safety Management Systems Certificate Awarded to

# **Dennis Jones**

has successfully completed

# **RCRA / DOT HAZARDOUS MATERIALS TRAINING** (California Waste Management)

As required by the CCR Title 22, 66265.16 & 49 CFR Subpart H & I: on this day: November 9, 2009

Gil Prieto

(800) 922-3520 www.SafetyCat.com

Certificate #91940

Certificate Awarded to

# **Dennis Jones**

has successfully completed

# Hazardous Waste Operations and Emergency Response 40 Hr - General Site Worker

Certificate #91973

40 Hours of Hazardous Waste Operations and Emergency Response Training as required by the Code of Federal Regulations 29, 1910.120 and the California Code of Regulations Title 8, 5/192 on this day: **November 10-13, 2009** 

Gil Prieto

Carrier Carrier

Safety Management Systems: SafetyCat.com, (800) 922-3520

Certificate Awarded to

# **Mark Drop**

has successfully completed

# RCRA / DOT HAZARDOUS MATERIALS TRAINING (California Waste Management)

As required by the CCR Title 22, 66265.16 & 49 CFR Subpart H & I: on this day: September 14, 2009

Court and

Gil Prieto

(800) 922-3520 www.SafetyCat.com

Certificate #91531

Certificate Awarded to

# **Mark Drop**

has successfully completed

# Hazardous Waste Operations and Emergency Response 40 Hr - General Site Worker

Certificate #91564

40 Hours of Hazardous Waste Operations and Emergency Response Training as required by the Code of Federal Regulations 29, 1910.120 and the California Code of Regulations Title 8, 5192 on this day: **September 15-18, 2009** 

Gil Prieto

Safety Management Systems: SafetyCat.com, (800) 922-3520

Certificate Awarded to

# **Andy Wales**

has successfully completed

# RCRA / DOT HAZARDOUS MATERIALS TRAINING (California Waste Management)

As required by the CCR Title 22, 66265.16 & 49 CFR Subpart H & I: on this day: September 14, 2009

CARTEST IN

**Gil Prieto** 

(800) 922-3520 www.SafetyCat.com

Certificate #91532

Certificate Awarded to

# **Andy Wales**

has successfully completed

# Hazardous Waste Operations and Emergency Response 40 Hr - General Site Worker

Certificate #91565

40 Hours of Hazardous Waste Operations and Emergency Response Training as required by the Code of Federal Regulations 29, 1910.120 and the California Code of Regulations Title 8, 5192 on this day: **September 15-18, 2009** 

**Gil Prieto** 

Safety Management Systems: SafetyCat.com, (800) 922-3520

### 505 #7169

#### Siemens Water Technologies Corp.

### LAND DISPOSAL RESTRICTION NOTIFICATION FORM

Pursuant to CCR Title 22, Section 66268.7(40 CFR 268.7(a), I hereby notify that this waste shipment contains one or more of the following wastes restricted under the land disposal restrictions for which applicable treatment standards are set forth in CCR Title 22, Section 66268.40 (40 CFR 268.40)

Manifest Num.00076			PACEX _		EPA#_CAR0001915	536
RCRA HAZARDOUS  U.S.F. PROFILE	WASTE INFORM List all	Subcategory	MASTEN	WATER*/	California List **	Hazardous Debris Subject To
NUMBER/ MANIFEST	D, F, K, U & P	Subcategory		TEWATER	Per CCR Title 22, Section	CCR Title 22, Sec 66268.45
LINE ITEM NUMBER	Codes	(IF ANY)	ww	NWW	66268.32	•
1) AP169390	D006, D007			х	□For:	
2) 350728-47				x	☐ For:	
					☐ For:	
					☐ For:	
1		*	•	•	k F039 WASTE STREAM	IS: (check one)
There are no un	derlying hazard	ous constituents (l	JHCs) prese	ent		
	ying hazardous	constituents (UHC	Ss) present v	vhich do no	t meet treatment standards	per CCR Title 22, Section
66268.48						
			opriate cons	stituent(s) pi	resent in the waste stream)	
DETERMINATION						_
ŀ		rating the waste a			ed and the reaction products	
Results from ana	alytical testing		Ana	lytical resul	ts attached 🗌 YES 🔻 🗎 N	10
TERM DEFINITION	ons:					
				HAT CONTAI	NS LESS THAN 1% BY WEIG	HT TOTAL TOXIC ORGANICS
(TOCs) AND 1% BY W	VEIGHT TOTAL S	SUSPENDED SOLID	S (TSS).	1		
*CALIFORNIA LIST	= THE FOLLOW	ING HAZARDOUS V	VASTES ARE	PROHIBITE	D FROM LAND DISPOSAL: p	er CCR Title 22, Section 66268.32
<ul> <li>Liquid hazardous</li> </ul>	waste with a pH l	less than or equal to	2.0	,	· ·	
		PCB's at concentral				
<ul> <li>Liquid hazardous</li> <li>1,000 mg/L</li> </ul>	waste, including	free liquids associat	ed with any s	solids/sludge,	containing free cyanide at cor	ncentrations greater than or equal to
, · •	waste, including	free liquids associate	ed with any so	lids/sludae d	containing metals at concentrati	ions greater than or equal to the
following:	·	,	-	-	-	<u> </u>
ARSENIC	500 mg/L		MERCUR' NICKEL	Υ	20 mg/L	
CADMIUM CHROMIUM	100 mg/L 500 mg/L		SELENIUI	M	134 mg/L 100 mg/L	
LEAD	500 mg/L		THALLIU		130 mg/L	
					r equal to 1,000 mg/L	
<ul> <li>Non-liquid RCRA</li> </ul>	hazardous waste	containing HOC's in	total concent	tration greate	r than or equal to 1,000 mg/L	
CERTIFICATION				6 111	b 11	and deadless and
						and testing or through knowledge complete. I am aware that there
					lity of a fine and imprisonme	
SPACEX			NW			01/21/09
COMPANY NAME		***************************************	AUT	THORIZED S	SIGNATURE	DATE



#### Rho Chem Corporation, a wholly owned subsidiary of PHILIP SERVICES CORP., RCRA Land Disposal Restriction Notification Form EZ

Generator: SPACEX EPA I.D. #:CAR000191536					00191536	
Profile #: 390575-00	125JJK					
The wastes identified 268, Subpart D or do is identified below (cl	not meet the appl	icable prohibition levels	al restrictions of 40 (specified in 268.32. I	CFR Part 268 Tursuant to 40	. The wastes do not meet the treatment so CFR 268.7(a), the required information	tandards specifi applicable to e
/	(W	Treatability Group: astewaters contain less the	□ Was an 1% filterable solid		☐ Nonwastewater an 1% Total Organic Carbon)	
(Complete )  □ D001 Ignitable ( □ D001 High TOC □ D002 Corrosive □ D002 Corrosive □ D003 Reactive S □ D003 Water Res □ D003 Water Rea	form UC, unless It except for High To Ignitable (greater managed in nonmanaged in CWA ulfides based on 2 yanides based on actives based on 2 etives based on 2 etipes based on 2 etipes based on	261.23(a)(5)	e and the waste is to WA-equivalent/Class arbon) lent/non Class I SD' SDWA systems nanaged in non-CW naged in CWA/ CWA	be combuste. I SDWA sys  VA systems  A/non-CWA	d or recovered.) items (Complete form UC) -equivalent/non Class I SDWA systems	s (Complete for
lf D004-43 boxes are ch SDWA systems):	ecked, complete and	l attach Form UC to address	underlying hazardous	constituents (u	nless these wastes are to be managed in CWA	1/CWA-equivalent
	ury inorganic (>260 ury organic (>260 ury (<260 mg/kg hlor e Silvex) trachloride	Lead □ D 50 mg/kg total), including mg/kg total), not includin	D0	es nd residues f vaters  33 Hexachlo 34 Hexachlo 35 Methyl e 36 Nitroben 37 Pentachl 38 Pyridine 39 Tetrachl oroethylene 41 2,4,5-Tri	probutadiene proethane thyl ketone zene prophenol proethylene chlorophenol	
		form UC must be complete s otherwise noted above.	d to address underlying	g hazardous	constituents, unless the material is treated i	n a Clean Water
n addition, the follo	wing wastes are	included in this shipme	ent:			
☐ F001-F005 sper	nt solvents. (If this	s box is checked, complete th	ae F001-F005 section o	n the back of t	his form. Check the hazardous waste number	(s) that applies. ar
identify the constituents	likely to be present	in the waste.)				
f this shipment car	ries additional	waste codes that are	not addressed abo	ve, identify	them here:	
EPA Waste Code	Subcateg	ory (if applicable)	EPA Waste Co	<u>de</u>	Subcategory (if applicable)	

This is a two sided form

Form EZ Revised 04/18/2007

### F001-F005 Spent Solvents

Check the box(es) that applies; identify the individual constituents likely to be present.

Hazardous waste description	Regulated hazardous constituents	
F001 Spent halogenated solvents used in degreasing	Carbon tetrachloride Tetrachloroethylene Trichloroethylene Trichloromonofluoromethane	Methylene chloride 1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
☐ F002 Spent halogenated solvents	Chlorobenzene Methylene chloride 1,1,1-Trichloroethane Trichloroethylene Trichloromonofluoromethane	o-Dichlorobenzene Tetrachloroethylene 1,1,2-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
☐ F003 Spent non-halogenated solvents	Acetone Cyclohexanone* Ethyl benzene Methanol* Xylenes (total)	n-Butyl alcohol Ethyl acetate Ethyl ether Methyl isobutyl ketone
☐ F004 Spent non-halogenated solvents	m-Cresol p-Cresol Nitrobenzene	o-Cresol Cresol-mixed isomers (cresylic acid)
☐ F005 Spent non-halogenated solvents	Benzene 2-Ethoxyethanol Methyl ethyl ketone Pyridine	Carbon disulfide* Isobutyl alcohol 2-Nitropropane Toluene
*The treatment standards for carbon disulfide, containing only one, two, or all three of these constituents are present in the waste.	cyclohexanone, and methanol nonwaster constituents. The treatment standards for	waters are based on the TCLP and apply to spent solvent nonwastew r these three constituents do not apply when any of the other F001-F
Hazardous Debris		
This shipment contains hazardous debris the blasting).	at will be treated to comply with the alte	ernative treatment standards of 268.45 (e.g., macroencapsulation or a
		er 268.45, hazardous debris must be treated for each "contan nd list the regulated hazardous constituents for each code.)
The contaminants subject to treatment for this de	bris are identified below:	
EPA Waste Code Subcategory	Contaminants subject to trea	atment ————————————————————————————————————

## Rho Chem Corporation, a wholly owned subsidiary of PHILIP SERVICES CORP., RCRA Land Disposal Restriction Notification Form UC

	Generator: SPACEX	· · · · · · · · · · · · · · · · · · ·	_U.S. EPA I.D. #	:CAR000191536	<del></del>
	Profile #: 390575-00		Manifest #:	000765125JJK	
	In accordance with 40 CFR 268.7(a), the umeans any constituent listed in 268.48, Talhazardous waste, at a concentration above and subcategory applicable to this waste.	ble UTS—Universal Treats	nent Standard which c	an reasonably be expected to be pro	esent at the point of generatic
,	In order to address underlying hazardo	ous constituents in chard	acteristic wastes, ple	ase check the appropriate box:	
/	I have reviewed the UTS list of 2 hazardous constituents reasonable	_			derlying
]	I have reviewed the UTS list of 2 constituents are present in this w				
	Constituents are present in this		,		
				-	
/	determination of underlying hazardous		on:		
1	Generator's knowledge of the wa	aste			
]	Analysis				
	I certify that I personally have examine to support this certification. I certify that this notification is true and correct to the	at as an authorized repre	sentative of the gen		
	ark Drop	W		01/21/09	
riı	nted Name	Signature		Date	

. List of Underlying Hazardous Constituents 40 CFR 268.48 Circle or otherwise identify the underlying hazardous constituents present in the waste: Organic Constituent Organic Constituent Organic Constituent Organic Constituent A2213 2-Chlorophenol Ethyl acetate Oxamyl 3-Chloropropylene Ethyl benzene Acenaphthylene Parathion Acenaphthene Ethyl cyanide/Propanenitrile Total PCBs(sum of all isomers, or all Chrysene Aroclors) o-Cresol Pebulate Acetone Ethyl ether Acetonitrile m-Cresol bis(2-Ethylhexyl)phthalate Pentachlorobenzene Ethyl methacrylate Acetophenone p-Cresol PeCDDs(All Pentachlorodibenzo-p-dioxi: m-Cumenyl methylcarbamate Ethylene oxide 2-Acetylaminofluorene PeCDFs(All Pentachlorodibenzofurans) Famphur Acrolein Cyclohexanone Pentachloroethane Acrylamide o.p'-DDD Fluoranthene Pentachloronitrobenzene Acrylonitrile p,p'-DDD Fluorene Pentachlorophenol o,p'-DDE Aldicarb sulfone Formetanate hydrochloride Phenacetin p.p'-DDE Formparanate Aldrin Phenanthrene 4-Aminobiphenyl o,p'-DDT Heptachlor Phenol p,p'-DDT Heptachlor epoxide Aniline o-Phenylenediamine Anthracene Dibenz(a,h)anthracene Hexachlorobenzene Phorate Hexachlorobutadiene Phthalic acid Aramite Dibenz(a,e)pyrene alpha-BHC 1,2-Dibromo-3-chloropropane Hexachlorocyclopentadiene Phthalic anhydride beta-BHC 1,2-Dibromoethane/Ethylene dibromide HxCDDs(All Hexachlorodibenzo-p-dioxins)Physostigmine Physostigmine salicylate delta-BHC Dibromomethane HxCDFs(All Hexachlorodibenzofurans) gamma-BHC m-Dichlorobenzene Hexachloroethane Promecarb o-Dichlorobenzene Hexachloropropylene Pronamide Barban Bendiocarb p-Dichlorobenzene Indeno(1,2,3-c,d)pyrene Propham Dichlorodifluoromethane Bendiocarb phenol Iodomethane Propoxur 1,1-Dichloroethane Isobutyl alcohol Prosulfocarb Benomyl 1,2-Dichloroethane Benzene Isodrin Pyrene 1,1-Dichloroethylene Pyridine Benz(a)anthracene Isolan trans-1,2-Dichloroethylene Isosafrole Safrole Benzal chloride 2,4-Dichlorophenol Benzo(b)fluoranthene Silvex/2,4,5-TP Kepone Methacrylonitrile 2.6-Dichlorophenol Benzo(k)fluoranthene 1,2,4,5-Tetrachlorobenzene 2,4-Dichlorophenoxyacetic acid/2,4-D TCDDs(All Tetrachlorodibenzo-p-dioxins Benzo(g,h,i)perylene Methanol TCDFs(All Tetrachlorodibenzofurans) 1,2-Dichloropropane Methapyrilene Benzo(a)pyrene Bromodichloromethane cis-1,3-Dichloropropylene Methiocarb 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Bromomethane/Methyl bromide trans-1,3-Dichloropropylene Methomyl Dieldrin Methoxychlor Tetrachloroethylene 4-Bromophenyl phenyl ether n-Butyl alcohol Diethylene glycol, dicarbamate 3-Methylcholanthrene 2,3,4,6-Tetrachlorophenol Butylate Diethyl phthalate 4.4-Methylene-bis(2-chloroaniline) Thiodicarb Butyl benzyl phthalate p-Dimethylaminoazobenzene Methylene chloride Thiophanate-methyl 2,4-Dimethyl phenol Methyl ethyl ketone 2-sec-Butyl-4,6-dinitrophenol/Dinoseb Tirpate Carbaryl Dimethyl phthalate Methyl isobutyl ketone Toluene Methyl methacrylate Dimetilan Toxaphene Carbenzadim Carbofuran Di-n-butyl phthalate Methyl methansulfonate Triallate Carbofuran phenol 1,4-Dinitrobenzene Methyl parathion Tribromomethane/Bromoform Carbon disulfide 2,4,6-Tribromophenol 4,6-Dinitro-o-cresol Metolcarb 2,4-Dinitrophenol Mexacarbate 1,2,4-Trichlorobenzene Carbon tetrachloride 2,4-Dinitrotoluene 1.1.1-Trichloroethane Molinate Carbosulfan Chlordane (alpha and gamma isomers) 2,6-Dinitrotoluene Naphthalene 1.1.2-Trichloroethane p-Chloroaniline Di-n-octyl phthalate 2-Naphthylamine Trichloroethylene Di-n-propylnitrosamine o-Nitroaniline Chlorobenzene Trichloromonofluoromethane Chlorobenzilate 1,4-Dioxane p-Nitroaniline 2,4,5-Trichlorophenoi 2-Chloro-1,3-butadiene Diphenylamine Nitrobenzene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenoxyacetic acid/2,4,5-7 Chlorodibromomethane Diphenylnitrosamine 5-Nitro-o-toluidine Chloroethane 1,2-Diphenylhydrazine o-Nitrophenol 1,2,3-Trichloropropane p-Nitrophenol bis(2-Chloroethoxy)methane Disulfoton 1,1,2-Trichloro-1,2,2-trifluoroethane Dithiocarbamates (total) N-Nitrosodiethylamine Triethylamine bis(2-Chloroethyl)ether tris-(2,3-Dibromopropyl)phosphate Endosulfan I N-Nitrosodimethylamine Chloroform bis(2-Chloroisopropyl)ether Endosulfan II N-Nitroso-di-n-butylamine Vernolate p-Chloro-m-cresol Endosulfan sulfate N-Nitrosomethylethylamine Vinyl chloride 2-Chloroethyl vinyl ether Endrin N-Nitrosomorpholine Xylenes-mixed isomers Endrin aldehyde N-Nitrosopiperidine Chloromethane/Methyl chloride (sum of o-,m-, and p-xylene concentrations)

2-Chloronaphthalene

Inogranic Constituent

Antimony Arsenic Barium Beryllium

Inorganic Constituent

Cadmium Chromium (Total) Cyanides (Total) Cyanides (Amenable) N-Nitrosopyrrolidine Inorganic Constituent

Lead Mercury-Nonwastewater from Retort Mercury-All Others

Nickel

Inorganic Constituent

Silver Sulfides Thallium



# Pacific Resource Recovery

3150 East Pico Boulevard, Los Angeles, CA 90023 Phone (800) 499-7145 Fax (213) 780-0078

#### LAND DISPOSAL RESTRICTION NOTIFICATION

Manifest	Manifest Line # Approval #
Lille # Apploval #	Lille # Approval #
] ]	
l i	į l
	Manifest Line # Approval #

This notification form shall be completed by the generator and shall accompany each shipment of restricted waste subject to the Land Disposal Restrictions (40 CFR 268 Subpart C).

- ➤ Complete all information in Section I.
- > Check mark all appropriate Regulated Constituents in Section II, additional applicable Sections and/or complete Section III.
- Sign and date Section IV.

SECTIONITY						SECTION AND ADDRESS.		
GENERATOR'S NAME	SPACE	<						
EPA I.D. NUMBER	CAROC	00191	53 <u>6</u>					
MANIFEST NUMBER	00070	000765127JJK						
TREATABILITY GROUP	(C	heck one)	1 Wastewater	Non-Wastev	vater			
HAZARDOUS DEBRIS			) Yes	□ No				
EPA HAZARDOUS WAST	E CODE(S) -							
0001						·····		
***************************************						***************************************		
There are no underlying								
	nazardous constituent	s of concern whi	or ch do not meet the treati	ment standards of	40 CFR 268.48,	Table		
I have used the following to	,							
			ed and reaction product	s, or				
<ul> <li>Results of analysis for</li> <li>Waste analysis data atta</li> </ul>		ble UTS. Yes	□ No					
waste analysis data atta	torieu!	ies	LI NO					
NON-RCRA WASTE	J LIQUID 🖸 SOLIE	)	(Check all that apply)	□ 11a □	11b 🗓 11c	☐ 11d		
Pursuant to Section 25179.6 o aqueous and solid waste conta Land Disposal Restriction Noti	aining organics has beer		other (28a – 28i)					

#### UNIVERSAL TREATMENT STANDARDS

#### SECTIONIL

The Underlying Hazardous Constituents must be identified for waste streams which carry the EPA Waste Codes F001–F005, F039, D001 (only D001 not treated by RORGS; CMBST or POLYM), D005–D043 (only D005–D043 if treated in Non-CWA, Non-CWA equivalent or Non-SDWA facilities).

The wastes identified on the aforementioned manifest document number and bearing the EPA Hazardous Waste Number(s) identified in Section I are subject to the Land Disposal Restrictions of 40 CFR 268 Subpart C. The wastes do not meet the applicable treatment standards specified in 40 CFR 268 Subpart D or exceeds the applicable prohibition levels specified in 40 CFR 268.32 (California list wastes) or RCRA Section 3004(d). In compliance with the requirements of 40 CFR 268.7 and 268.9 we are indicating below the applicable constituents of concern.



# Pacific Resource Recovery

3150 East Pico Boulevard, Los Angeles, CA 90023 Phone (800) 499-7145 Fax (213) 780-0078

### ADDITIONAL RESTRICTED WASTE IDENTIFICATION/ TREATMENT STANDARDS AND CERTIFICATION FORM

Complete Section III if the restricted wastes (i.e., EPA Hazardous Waste Code) as listed in Section I do not meet the applicable treatment standards in 40 CFR 268.40 (Treatment Standards for Hazardous Wastes) and have not been identified as required in Section II.						
EPA Hazardous Waste Code	Subcategory (if applicable)	AppropriateTreatment Standard	Alternative Treatment Technology (Debris)			
	m, na					
•						
	,					
		1.00				
		,				
		'				
		·				
			ent felgetis et e			

I hereby certify that all info knowledge and information	ormation submitted in this and all associated documents is complete and accurate to the best of my n.
Company Name: _	SDACEX
Authorized Signature:	
Printed Name:	mark drop
Date:	1/21/09

Dispersional	Regulstos comitivesi — estavas estad	C25 <sup>1</sup> HO.	is todi <sub>y</sub> concarpacion stangeng flustomalst	Hee-westerraler sizedard coeces- traices in majorg <sup>2</sup> uniosa noine un mag/1002 <sup>2</sup>	रिवनुगार्थाक दरक्योगियको दरक्याक्त्र प्रश्लामे	CAS <sup>1</sup> HO.	Upziswałet standard roncestration in mg/ <sup>2</sup>	Nos-versionalur stundard concen- tration in myAq2 uniasz nosad az "mg/l TCL2"	Sequiated constituent — common name	CAS <sup>†</sup> HO.	Wateloweler siarrosed concentration in rang/ <sup>2</sup>	ned LCTA. supering factor trapes in the balls trapes a carear
Content	[] Arenanhibulana	208-86-4	0.059	3.4	Om-Dichlorobenzene	541-73-1	0.036	6	Op-Nitroaniline	100-01-6	0.028	28
Commonstrate				<del>,</del> [		95-50-1	0.088	6	Clo-Nitroaniline	88-74-4	0.27	14
Technology   Tec				160	Op-Dichlorobenzene	106-46-7	0.090	8	□Nitrobanzena	98-95-3	630.0	14
25-Accordinations   25-50, 25.00   167-50   25.00		75-05-8	5.6	1.8	□Dichlorodilluoromethane	75-71-8	0.23	7.2	□5-Nitro-o-toluidine	99-55-8	0.32	28
	DAcatophenone	95-86-2	0.010	9.7	□1.1-Dichloresthane	75-34-3	0.059	б	□o-Nitrophenol	88-75-5	0.28	13
Table   Tabl	12-Acetylaminofluorene	53-96-3	0.059	140	□ 1,2-Dichioroethane	107-06-2	0.21	6	□ p-Nitrophenol			
June   1964	3Acrokin	107-02-8	0.29	NA		75-34-4		<del>!                                    </del>				<del></del>
June   1969   1961   1961   1962   1961   1962   1961   1962	⊒Acrylamide	79-06-1						<del> </del>				
23-4-Management	3Acrylonitriis	<del>}                                    </del>					<del> </del>	<del>[</del>				·
Description   Geo. Sci.   Al.												<del></del>
15-20-16-16-16-16-16-16-16-16-16-16-16-16-16-							1					
1946-196						<del>] </del>	<del></del>	<del></del>				
Dispute 997   1916-9					The state of the s	<del></del>						
December   1985   1986   198						<del> </del>						
2006-2016   159-94   0.022   0.068   0.069   0.071   0.086   0.069   0.071   0.086   0.069   0.071   0.086   0.069   0.071   0.086   0.069   0.071   0.086   0.069   0.072   0.086   0.069   0.072   0.086   0.069   0.072   0.086   0.069   0.072   0.086   0.069   0.075   0.089   0.072   0.086   0.089   0.072   0.089	······································											
Departs   1969   0.0077										NA		0.001
Description   Sept   Company   Com						131-11-3	0.047	28		76-01-7	0.055	6
Bearst ethnics				3.4	DDI-n-butyl phthalate	84-74-2	0.057	28	☐Pentachforonitrobenzene	82-68-8	0.055	4.8
Beaustin						-	0.32	2.3	☐Pentachlorophenol	87-86-5	0.089	
					4,6-Dinitra-a-cresol	534-52-1	6.28	160	□ Phenacatin	62-44-2	0,081	16
Bearco  Different   Bearco  A.   Dept.   Dep				3.4	□2,4-Dinitrophanol	51-28-5	0,12	160	□Phenanthrene	85-01-8	0.059	5.6
Description   1914-42   0.0055   1.5   1.5   0.006-early plantate   100-0-0-0   1.5   1.5   0.006-early plantate   100-0-0-0   0.007   0.006-early plantate   100-0-0-0   0.007   0.006-early plantate   100-0-0-0   0.005   0.006-early plantate   100-0-0-0   0.006-early plantate   100-0-0-0-0   0.006-early plantate		205-99-2	0,11	6.8	□2,4-Dinitrololuene	121-14-2	0,32	140	***************************************	108-95-2	0.039	6.2
	Benzo(g,h,i)perylana	191-24-2	0.0055	1.8	□2,6-Dintrotoluene	806-20-2	0.55	28	OPhorate	298-02-2	0.021	4.6
	DBenzo(k)tivoranthene	207-08-9	0.11		□DI-n-octyl phthalate			<del></del>				
	lbis-(2-Chloroethoxy) methans	111-91-1	0.036	7.2	□Di-n-propyinitrosamine			<del></del>				25
Description of the property	lbls-(2-Chioroethyl) other	111-44-4										1.5
	Abis-(Chtorolsopropyl) ether											
Internation   14-83-9		75-27-4	0.35	15				<del> </del>				<del>`</del>
		74-83-9	0.11	15						~~~		
Design permy characters   1994-96   2.5   Conditional part   1994-96   199			<del>~~~~</del>		T							
Blery hermy pethabits												
	<del></del>											
Agricultifies   75-150   3.8   4.8   TCLP   Cledion Methydes   7421-93-4   0.0625   0.13   Clarbon disurifies   75-150   3.8   4.8   TCLP   Cledion Methydes   7421-93-4   0.0625   0.13   Clarbon disurifies   56-28-5   0.057   6.0   Cledion (abbits)   4.17-08-6   0.057   6.0   Cledion (abbits)		05 50 7	- 0.011									
Carbon desirides   75-15-9   3.8   4.9 TCLP		88-85-7	0.066	2.5								
Carbot Interhebride   56-22-5   0.057   0.05	Carbon disulfide	75-15-0	3.8	4.8 TCLP								
ABDoctate (Ebbs & Quartum stories)   57-74-9   0.003   0.48   0.65   0	Carbon tetrachloride	56-23-5	0.057	6.0		<del></del>						
Definition   106-47-6   0.46   16   16   16   16   16   16   16		57-74-0	0.0022	222								
Chilorobalization   104-90-7   0.057   6.0							<del> </del>	<del> </del>				
Differentiation   126-98-9   0.057   0.0   NA	- p					75-21-8	0.12	NA .	□ Toxaphens	8001-35-2	0.0095	2.6
22-Chloronthans   126-98-8   0.057   0.28   Chloronthens   126-46-1   0.057   15   Chloronthans   124-46-1   0.057   15   Chloronthans   126-69-8   0.046   6.0   Chloronthans   126-69-8   0.052   0.052   0.054   6.0   Chloronthans   126-69-8   0.052   0.052   0.052   0.054   0.052   0.054   0.052   0.054   0.052   0.055   0.054   0.052   0.054   0.052   0.055   0.05					□ Famphur	52-85-7	0.017	15	OTribromomethane (bromoform	75-25-2	0.63	15
Chlorordibromomethane   124-46-1   0.057   15   Chlorores   88-73   0.059   3.4   Chlororethane   77-00-3   0.27   6.0   Chlororethane   75-00-3   0.28   6.0   Chlororethane   75-00-3   0.005   0.					□Fluoranthens	206-44-0	0.068	3.4	□1,2,4-Trichlorobenzene	120-82-1	0.055	19
Chieroform   67-66-3   0.046   6.0   Chieroform   67-66-3   0.046   6.0   Chieroform   67-66-3   0.046   6.0   Chieroform-cress   59-50-7   0.018   14   Chieroform-cress   59-50-7   0.062   NA   Chieroform-cress   59-50-7   0.062   NA   Chieroform-cress   59-50-7   0.052   NA   Chieroform-cress   59-50-7   0.052   NA   Chieroform-cress   59-50-7   0.044   5.7   Chieroform-cress   59-50-7   0.045   0.055					©Fluorena	88-73-7	0.059	3.4	C1.1.1-Trichloroethane	71-55-6	0.054	6.0
Primore-meresol   59-50-7   0.018   14	Chloroethane	75-00-3	0.27	6.0		76-44-8	0.0012	0.066	□1,1,2-Trichlorcethane	79-00-5	0.054	6.0
December   190-195   190	Chloroform	67-66-3	0,046	6.0	☐ Heptachlor epoxide	1024-57-3	0.018	0.066		79-01-6	0.854	6.0
Chloromethane (methyl)	p-Chloro-m-cresol	59-50-7	0.018	14							0.020	30
Chlorodop   Chlo	12-Chloroethyl vinyl ether	110-75-8	0.062	NA		87-68-3			<del></del>	95-96-4	0.18	7.4
	Chloromethane (methyl					_		,			0.035	7.4
	chloride)									S6-18-4	0,85	30
Section   107-05-1   0.036   30   Chrysans   197-05-1   0.035   30   Chrysans   218-01-9   0.059   3.4   Chrysans   218-01-9   0.059   3.4   Chrysans   198-37-5   0.0055   3.4   Chrysans   198-38-5   0.0055   3.4   Chrysans   198-39-5   0.0055   3.4   Chrysans   198-39-5   0.0055   3.4   Chrysans   198-39-6   0.77   5.6   Chrysans   198-39-5   0.0055   3.4   Chrysans   198-39-6   0.77   5.6   Chrysans   198-39-7   0.78   Chrysans   198-39-7   0.88   Chrysans   198-39			:					<del></del>		70.10.4	0.057	30
Chrysane   218-01-9   0.059   3.4     Cindena (1,2,3-c,d)pyrene   193-39-5   0.0055   3.4   Cindena (1,2,3-c,d)pyrene   193-39-5   0.0055   3.4   Cindena (1,2,3-c,d)pyrene   193-39-5   0.0055   3.4   Cindena (1,2,3-c,d)pyrene   193-39-5   0.0055   3.4   Cindena (1,2,3-c,d)pyrene   193-39-5   0.0055   3.4   Cindena (1,2,3-c,d)pyrene   193-39-5   0.0055   3.4   Cindena (1,2,3-c,d)pyrene   193-39-5   0.0055   3.4   Cindena (1,2,3-c,d)pyrene   193-39-5   0.0055   3.4   Cindena (1,2,3-c,d)pyrene   193-39-5   0.0055   3.4   Cindena (1,2,3-c,d)pyrene   193-39-5   0.0055   3.4   Cindena (1,2,3-c,d)pyrene   193-39-5   0.0055   3.4   Cindena (1,2,3-c,d)pyrene   193-39-5   0.0055   3.4   Cindena (1,2,3-c,d)pyrene   193-39-5   0.0055   3.4   Cindena (1,2,3-c,d)pyrene   193-39-5   0.0055   3.4   Cindena (1,2,3-c,d)pyrene   193-39-5   0.0055   3.4   Cindena (1,2,3-c,d)pyrene   193-39-5   0.0055   0.025					<del></del>							<del></del>
p-Cresol 106-44-5 0.77 5.6   Glodomethane 74-68-4 0.19 65   GTotal PCBs 1336-35-2 0.1 10 m-Cresol 108-39-4 0.77 5.6   Glodomethane 74-68-4 0.19 65   GARITHORY 7440-35-0 1.9 0.07 T							<del></del>					
m-Crasol 103-9-4 0.77 5.6			<del></del>				<del>}</del>	<u> </u>				
o-Cressol         95-46-7         0.11         5.6         Clisodrin         455-73-6         0.921         0.066         Classification         Cyclohexanone         103-94-1         0.36         0.75 TCLP         Cyclohexanone         120-58-1         0.081         2.6         Cyclohexanone         120-58-1         0.081         2.6         Cyclohexanone         120-58-1         0.081         2.6         Cyclohexanone         120-58-1         0.081         2.6         Cyclohexanone         143-50-8         0.0011         0.13         Cyclohexanone         1440-31-7         0.22         0.02 To Cyclohexanone         0.02-100         0.02-100         0.02-100         0.02-100         0.02-100         0.02-100         0.02-100         0.03-1								·				0.07 TC1
Cyclohexanone   103-94-1   0.36   0.75 TCLP   Cyclohexanone   103-94-1   0.36   0.75 TCLP   Cyclohexanone   120-58-1   0.081   2.8   Cyclohexanone   130-94-1   0.36   0.75 TCLP   Cyclohexanone   143-50-8   0.0011   0.13   Cyclohexanone   1440-41-7   0.82   0.021   0.001   0.0							<del></del>					5.0 TCL
2-4-Dichlorophenoxyacetic acid (2,4-D) 94-75-7 0.72 10   Cikepone 143-50-8 0.0011 0.13   Cikep												21 TCLP
ackd (2,4-D)         94-76-7         0.72         10         Identification of the properties of		103-94-7	U.30	0./3 1017							<u> </u>	0.02 TCI
Chemium (total)   Chemium (t		94-75-7	0.72	10				ļ				0.2 TCL
District								<u> </u>				0.85 TCL
0.0°-00E 3424-82-6 0.031 0.087  p.p°-00E 72-55-9 0.031 0.087  p.p°-00E 72-55-9 0.031 0.087  p.p°-00T 789-02-6 0.0039 0.087  p.p°-00T 50-29-3 0.0039 0.087  Diberzo(a.e)pyrene 192-65-4 0.061 NA Control of the properties 192-65-4 0.061 NA Control of the properties 192-65-4 0.081 NA Control of the properties 192-65-5 NA Control of the properties 192-65-4 0.081 NA Control of the properties 192-65-4 0.081 NA Control of the properties 192-65-4 0.081 NA Control of the properties 192-65-5 NA Control of the properties 192-65-5 NA Control of the properties 192-65-6 0.14		<del></del>	i				<del>                                     </del>	<u> </u>			<del></del>	<del></del>
District			<del></del>				<del>                                     </del>	<b></b>			<del></del>	<del></del>
0.p°-ODT 729-02-5 0.0039 0.087	p,p'-DDE		0.037	0.087			<del>}</del>					1
10   10   10   10   10   10   10   10						30-45-5	0.0055			<del></del>	<del> </del>	0.75 TCL
Diperzo(a,c)pyrene	<del></del>		<del></del>			101-14-4	0.50	30				0.20 TCL
Diberto(a,h)anthracene   \$3.70-3   0.055   3.2     OMethyl ethyl ketone   78-93-3   0.28   36   OMekel   7440-02-0   3.58   13.6 To tris-(2,3-Dibromopropyl)   128-72-7   0.11   0.10   OMethyl isobutyl ketone   108-10-1   0.14   33   OSelanium'   7782-49-2   0.82   5.7 To phosphate   1.2-Dibromo-3-Chloropropana   98-12-0   0.11   15   OMethyl methacrylate   30-82-6   0.14   150   OSliver   7440-22-4   0.43   0.11 To phosphate   1.2-Dibromo-4-Chloropropana   98-12-3   0.018   NA   OSulfide   0496-25-5   134.0   OMethyl methacrylate   30-82-6   0.014   4.8   Omethyl methacrylate   1.2-Dibromo-4-Chloropropana   1.2-Bibromo-4-Chloropropana   1.2-Bibromo-4-Chlor	Dibenzo(a,e)pyrene			NA				-			<del>  </del>	0.025 TCI
tris-(2,3-Dibromopropyl) phosphate - 128-72-7 0.11 0.10							<del> </del>	<del></del>		·		13.6 TCL
Property	tris-(2,3-Dibromopropyi)						<del>,</del>	<del>,</del>	<del></del>	·		5.7 TCI
1,2-Dibromo-3-Chiloropropane 95-12-6 0.11 15 Objective 66-27-3 0.018 NA OSulfide 9496-25-6 34.0 itA 1,2-Dibromoethane (sthylene dibromide) 105-83-1 0.025 15 Objective 91-20-3 0.059 5.6 Ovanadium 7440-26-0 1.4 0.20 TO Objective 91-20-3 0.059 5.6 Ovanadium 7440-62-2 4.3 1.6 TO Objective 91-20-3 0.059 5.6 Ovanadium 7440-62-2 4.3 1.6 TO Objective 91-20-3 0.059 5.6 Ovanadium 91-20-2 91-20	phosphate ·		0.11	0.10	<del></del>		·			· · · · · · · · · · · · · · · · · · ·	<u> </u>	0.11 TC
1,2-Dibromeethana (athylena dibromide) 105-93-4 0.025 15 OMethyl Faratrillon 258-00-9 0.014 4.8 OThallium 7440-28-9 1.4 0.20 Tollromomethana 74-95-3 0.11 15 OHaphthalene 91-20-3 0.059 5.6 OVanadium' 7440-52-2 4.3 1.6 Tollromomethana		95-12-8	0.11	15				<del> </del>		<del> </del>		<del></del>
Obtromomethana 74-95-3 0,11 15 OHaphthalene 91-20-3 0,059 5,6 OVanadium' 7440-52-2 4,3 1,6 Ti							<del>*</del>	· · · · · · · · · · · · · · · · · · ·			<del></del>	0.20 TCI
VIOLEGICIANE 1 (4-23-5) 0.11   13	·			i				1				1.6 TCL
	Digrememethane	74-95-3	0.11	15			<del> </del>		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u> </u>		4.3 TCI

•



#### Rho Chem Corporation, a wholly owned subsidiary of PHILIP SERVICES CORP., RCRA Land Disposal Restriction Notification Form EZ

EPA I.D. #:CAR000191536

Generator: SPACEX

Form EZ Revised 04/18/2007

Profile #: 390573-00	Manifest #: 000765127JJK
	a are subject to the land disposal restrictions of 40 CFR Part 268. The wastes do not meet the treatment standards specific applicable prohibition levels specified in 268.32. Pursuant to 40 CFR 268.7(a), the required information applicable to east that apply):
/	Treatability Group: ☐ Wastewater ☐ Nonwastewater (Wastewaters contain less than 1% filterable solids and less than 1% Total Organic Carbon)
(Complete form UC, un  □ D001 Ignitable (except for H  □ D001 High TOC Ignitable (g  □ D002 Corrosive managed in  □ D002 Corrosive managed in  □ D003 Reactive Sulfides base  □ D003 Water Reactives base  □ D003 Water Reactives base	
lf D004-43 boxes are checked, comple SDWA systems):	te and attach Form UC to address underlying hazardous constituents (unless these wastes are to be managed in CWA/CWA-equivalent)
□ D007 Chromium □ D009 High mercury inorganic D009 High-mercury organic D009 Low-mercury (<260 m D010 Selenium D012 Endrin D013 Lindane D014 Methoxychlor D015 Toxaphene D016 2,4-D D017 2,4,5-TP (Silvex) D018 Benzene D019 Carbon tetrachloride D020 Chlordane D021 Chlorobenzene D022 Chloroform	□ D011 Silver       □ D023 o-Cresol       □ D033 Hexachlorobutadiene         □ D024 m-Cresol       □ D034 Hexachloroethane         □ D025 p-Cresol       □ D035 Methyl ethyl ketone         □ D026 Cresols (Total)       □ D036 Nitrobenzene         □ D027 p-Dichlorobenzene       □ D037 Pentachlorophenol         □ D028 1,2-Dichloroethane       □ D038 Pyridine         □ D029 1,1-Dichloroethylene       □ D039 Tetrachloroethylene         □ D030 2,4-Dinitrotoluene□ D040 Trichloroethylene       □ D041 2,4,5-Trichlorophenol         □ D031 Heptachlor       □ D042 2,4,6-Trichlorophenol         □ D032 Hexachlorobenzene       □ D043 Vinyl chloride
(CWA) treatment process or	cked, form UC must be completed to address underlying hazardous constituents, unless the material is treated in a Clean Water unless otherwise noted above.
	es are included in this shipment:
	(If this box is checked, complete the F001-F005 section on the back of this form. Check the hazardous waste number(s) that applies. an
identify the constituents likely to be p	
500 Average of September 2 (1 - 50)	ional waste codes that are not addressed above, identify them here:
	category (if applicable) EPA Waste Code Subcategory (if applicable)

This is a two sided form

F001-F005 Spent Solve Check the box(es) that ap		idual constituents likely to be p	oresent.					
Hazardous waste description		Regulated hazardous constituents						
☐ F001 Spent halogenat used in degreas:	ing Tetra Trick	oon tetrachloride achloroethylene nloroethylene nloromonofluoromethane	Methylene chloride 1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane					
☐ F002 Spent halogenat	Metl 1,1,1 Tricl	orobenzene nylene chloride -Trichloroethane nloroethylene nloromonofluoromethane	o-Dichlorobenzene Tetrachloroethylene 1,1,2-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane					
☐ F003 Spent non-halog	Cycl Ethy Metl	one ohexanone* l benzene nanol* nes (total)	n-Butyl alcohol Ethyl acetate Ethyl ether Methyl isobutyl ketone					
☐ F004 Spent non-halog	<i>p</i> -Cr		o-Cresol Cresol-mixed isomers (cresylic acid)					
☐ F005 Spent non-halog	2-Eti	noxyethanol yl ethyl ketone	Carbon disulfide* Isobutyl alcohol 2-Nitropropane Toluene					
*The treatment standards fo containing only one, two, c constituents are present in	or all three of these constitu	exanone, and methanol nonwaster uents. The treatment standards fo	waters are based on the TCLP and apply to spent solvent nonwastew r these three constituents do not apply when any of the other F001-F					
Hazardous Debris								
This shipment contains hazardous debris that will be treated to comply with the alternative treatment standards of 268.45 (e.g., macroencapsulation or a blasting).								
(The definitions of "debr subject to treatment." To	is" and "hazardous del determine these, look i	oris" are in 40 CFR 268.2. Pe up the waste code in 268.40 au	er 268.45, hazardous debris must be treated for each "contained list the regulated hazardous constituents for each code.)					
The contaminants subject to treatment for this debris are identified below:								
EPA Waste Code	Subcategory	Contaminants subject to trea	tment					

### Rho Chem Corporation, a wholly owned subsidiary of PHILIP SERVICES CORP., RCRA Land Disposal Restriction Notification Form UC

	Generator: SPACEX	····	U.S. EPA I.D.	#: <u>CAR000191536</u>	
	Profile #: 390573-00		Manifest #:	000765127JJK	
	In accordance with 40 CFR 268.7(a), the means any constituent listed in 268.48, I hazardous waste, at a concentration abound subcategory applicable to this waste	Table UTS—Universal :  ove the constituent-spec	Treatment Standard which	can reasonably be expected to be prese	nt at the point of generativ
	In order to address underlying hazar	dous constituents in	characteristic wastes, pl	ease check the appropriate box:	
4	I have reviewed the UTS list of hazardous constituents reasonate				rlying
	I have reviewed the UTS list of constituents are present in this				
				**************************************	
		***************************************			
The	e determination of underlying hazardot	us constituents was b	ased on:		
Ø	/ Generator's knowledge of the w	vaste			
	Analysis				
	I certify that I personally have examine to support this certification. I certify this notification is true and correct to	hat as an authorized i	epresentative of the gen	alysis and testing, or through know erator named above, all the informa	ledge of the waste tion submitted in
	NAKK DROB	Mos		01/21/09	
Pri	nted Name	Signature		Date	

#### List of Underlying Hazardous Constituents 40 CFR 268.48

Circle or otherwise identify the underlying hazardous constituents present in the waste: Organic Constituent Organic Constituent Organic Constituent Organic Constituent 2-Chlorophenol A2213 Ethyl acetate Oxamvl Acenaphthylene 3-Chloropropylene Ethyl benzene Parathion Acenaphthene Chrysene Ethyl cyanide/Propanenitrile Total PCBs(sum of all isomers, or all Aroclors) o-Cresol Pebulate Acetone Ethyl ether Acetonitrile m-Cresol bis(2-Ethylhexyl)phthalate Pentachlorobenzene Acetophenone Ethyl methacrylate p-Cresol PeCDDs(All Pentachiorodibenzo-p-dioxi 2-Acetylaminofluorene m-Cumenyl methylcarbamate Ethylene oxide PeCDFs(All Pentachlorodibenzofurans) Acrolein Cyclohexanone Famphur Pentachloroethane Acrylamide o,p'-DDD Fluoranthene Pentachloronitrobenzene Acrylonitrile p,p'-DDD Fluorene Pentachlorophenol o,p'-DDE Aldicarb sulfone Formetanate hydrochloride Phenacetin p,p'-DDE Aldrin Formparanate Phenanthrene 4-Aminobiphenyl o,p'-DDT Heptachlor Phenol p,p'-DDT Aniline Heptachlor epoxide o-Phenylenediamine Anthracene Dibenz(a,h)anthracene Hexachlorobenzene Phorate Hexachlorobutadiene Aramite Dibenz(a,e)pyrene Phthalic acid alpha-BHC 1,2-Dibromo-3-chloropropane Hexachlorocyclopentadiene Phthalic anhydride beta-BHC 1,2-Dibromoethane/Ethylene dibromide HxCDDs(All Hexachlorodibenzo-p-dioxins)Physostigmine delta-BHC Dibromomethane HxCDFs(All Hexachlorodibenzofurans) Physostigmine salicylate gamma-BHC m-Dichlorobenzene Hexachloroethane Promecarb Hexachloropropylene Barban o-Dichlorobenzene Pronamide p-Dichlorobenzene Bendiocarb Indeno(1,2,3-c,d)pyrene Propham Bendiocarb phenol Dichlorodifluoromethane Iodomethane Propoxur Benomyl i.l-Dichloroethane Isobutyl alcohol Prosuifocarb Benzene 1,2-Dichloroethane Isodrin Pyrene Benz(a)anthracene 1,1-Dichloroethylene Pyridine Isolan trans-1,2-Dichloroethylene Benzal chloride lsosafrole Safrole Benzo(b)fluoranthene 2,4-Dichlorophenol Kepone Silvex/2,4,5-TP 1,2,4,5-Tetrachlorobenzene Benzo(k)fluoranthene 2,6-Dichlorophenol Methacrylonitrile Benzo(g,h,i)perylene 2,4-Dichlorophenoxyacetic acid/2,4-D Methanol TCDDs(All Tetrachlorodibenzo-p-dioxin 1,2-Dichloropropane Benzo(a)pyrene Methapyrilene TCDFs(All Tetrachlorodibenzofurans) Bromodichloromethane cis-1,3-Dichloropropylene Methiocarb 1,1,1,2-Tetrachloroethane Bromomethane/Methyl bromide trans-1,3-Dichloropropylene Methomyl 1,1,2,2-Tetrachloroethane Tetrachioroethylene 4-Bromophenyl phenyl ether Dieldrin Methoxychlor n-Butyl alcohol Diethylene glycol, dicarbamate 3-Methylcholanthrene 2,3,4,6-Tetrachlorophenol Butylate Diethyl phthalate 4,4-Methylene-bis(2-chloroaniline) Thiodicarb Butyl benzyl phthalate p-Dimethylaminoazobenzene Methylene chloride Thiophanate-methyl 2-sec-Butyl-4,6-dinitrophenol/Dinoseb 2,4-Dimethyl phenol Methyl ethyl ketone Tirpate Dimethyl phthalate Carbaryl Methyl isobutyl ketone Toluene Carbenzadim Dimetilan Methyl methacrylate Toxaphene Carbofuran Di-n-butyl phthalate Methyl methansulfonate Triallate Carbofuran phenol 1,4-Dinitrobenzene Methyl parathion Tribromomethane/Bromoform Carbon disulfide 4,6-Dinitro-o-cresol Metolcarb 2,4,6-Tribromophenol Carbon tetrachloride 2.4-Dinitrophenol Mexacarbate 1,2,4-Trichlorobenzene Carbosulfan 2,4-Dinitrotoluene Molinate 1,1,1-Trichloroethane 2,6-Dinitrotoluene Chlordane (alpha and gamma isomers) Naphthalene 1,1,2-Trichloroethane p-Chloroaniline Di-n-octyl phthalate 2-Naphthylamine Trichloroethylene Chlorobenzene Di-n-propylnitrosamine o-Nitroaniline Trichloromonofluoromethane 2,4,5-Trichlorophenol Chlorobenzilate 1.4-Dioxane p-Nitroaniline 2-Chloro-1,3-butadiene Diphenylamine Nitrobenzene 2,4,6-Trichlorophenol Diphenylnitrosamine 2,4,5-Trichlorophenoxyacetic acid/2,4,5-Chlorodibromomethane 5-Nitro-o-toluidine 1,2,3-Trichloropropane Chioroethane 1,2-Diphenylhydrazine o-Nitrophenol bis(2-Chloroethoxy)methane p-Nitrophenol 1,1,2-Trichloro-1,2,2-trifluoroethane Disulfoton bis(2-Chloroethyl)ether Dithiocarbamates (total) N-Nitrosodiethylamine Triethylamine tris-(2,3-Dibromopropyl)phosphate Chloroform Endosulfan I N-Nitrosodimethylamine bis(2-Chloroisopropyl)ether Endosulfan II N-Nitroso-di-n-butylamine Vernolate p-Chloro-m-cresol Endosulfan sulfate N-Nitrosomethylethylamine Vinvl chloride Xylenes-mixed isomers

2-Chloroethyl vinyl ether Chloromethane/Methyl chloride

concentrations) 2-Chloronaphthalene

Inogranic Constituent

Antimony Arsenic Barium Beryllium

Endrin

Endrin aldehyde

**EPTC** 

Inorganic Constituent Cadmium Chromium (Total) Cyanides (Total) Cyanides (Amenable)

N-Nitrosomorpholine N-Nitrosopiperidine

> N-Nitrosopyrrolidine Inorganic Constituent

Lead Mercury-Nonwastewater from Retort

Mercury-All Others Nickel

Inorganic Constituent Silver

(sum of o-,m-, and p-xylene

Sulfides Thallium

### Siemens Water Technologies Corp.

### LAND DISPOSAL RESTRICTION NOTIFICATION FORM

Pursuant to CCR Title 22, Section 66268.7(40 CFR 268.7(a), I hereby notify that this waste shipment contains one or more of the following wastes restricted under the land disposal restrictions for which applicable treatment standards are set forth in CCR Title 22, Section 66268.40 (40 CFR 268.40)

Manifest Num.000765195 JJK Generator Name: SPACEXEPA#_CAR000191536								
RCRA HAZARDOUS V U.S.F. PROFILE NUMBER/ MANIFEST LINE ITEM NUMBER	WASTE INFORM List all D, F, K, U & P Codes	ATION Subcategory (IF ANY)	WASTEWATER*/ NONWASTEWATER I		California List ** Per CCR Title 22, Section 66268.32	Hazardous Debris Subject To CCR Title 22, Sec 66268.45		
1) 35072847				х	□For:			
				Χ.	☐ For:			
					☐ For:			
					☐ For:			
		OD DOOL DOO	D010 40	7001 7	POOL WACER CERTIFICATION			
		•	-	-	% F039 WASTE STREAM	is: (cneck one)		
66268.48	ying hazardous	constituents (UHC	s) present v	vhich do no	t meet treatment standards	per CCR Title 22, Section		
DETERMINATION					,			
			nd the raw m	naterials use	ed and the reaction products	3		
☐ Results from ana	lytical testing	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Ana	lytical resul	ts attached 🗌 YES 🔲 N	0		
- TERM DEFINITIO * WASTEWATER (TOCs) AND 1% BY W	= per CCR Title	22, Section 66260.1 USPENDED SOLID	0, WASTE TH S (TSS).	IAT CONTAI	NS LESS THAN 1% BY WEIGH	HT TOTAL TOXIC ORGANICS		
<ul><li>Liquid hazardous</li><li>Liquid hazardous</li></ul>	waste with a pH I waste containing	ess than or equal to PCB's at concentrat	2.0 ion of greater	than or equa	al to 50 ppm	er CCR Title 22, Section 66268.32		
<ul> <li>Liquid hazardous following:</li> </ul>	waste, including	free liquids associate	d with any so	lids/sludge, o	containing metals at concentrati	ons greater than or equal to the		
ARSENIC	500 mg/L		MERCUR	Y	20 mg/L			
CADMIUM	100 mg/L		NICKEL		134 mg/L			
CHROMIUM	500 mg/L		SELENIUI		100 mg/L			
LEAD 500 mg/L THALLIUM 130 mg/L  Liquid hazardous waste, that contains HOC's in total concentration greater than or equal to 1,000 mg/L								
Non-liquid RCRA hazardous waste containing HOC's in total concentration greater than or equal to 1,000 mg/L								
CERTIFICATION I certify under penalty of the waste to support	y of law that I pe ort this certificati	rsonally have exam	ined and am ne informatio	familiar wit	h the waste through analysis	and testing or through knowledge complete. I am aware that there nt		
SPACEX	M.DLOP		W			03/11/09		
COMPANY NAME			AG	HORIZED S	BIGNATURE	DATE		

# #1310

#### Siemens Water Technologies Corp.

#### LAND DISPOSAL RESTRICTION NOTIFICATION FORM

	···········				<del></del>						
Manifest Num.00076	<del> </del>		SPACEX .		EPA#_CAR0001915	36					
RCRA HAZARDOUS VU.S.F. PROFILE NUMBER/ MANIFEST LINE ITEM NUMBER	List all D, F, K, U & P Codes	ATION Subcategory (IF ANY)			Per CCR Title 22, Section	Hazardous Debris Subject To CCR Title 22, Sec 66268.45					
1) 35072847B				х	□For:						
					☐ For:						
					☐ For:						
		-		•	k F039 WASTE STREAM	(S: (check one)					
66268.48	ying hazardous	constituents (UHC	Cs) present v	vhich do no	t meet treatment standards	per CCR Title 22, Section					
DETERMINATION	BASED UPO	N : (check one)									
Knowledge of the	e process gene	rating the waste a	nd the raw m	naterials use	ed and the reaction products	6					
☐ Results from ana	lytical testing		Ana	lytical resul	ts attached D YES D N	О					
TERM DEFINITIO  * WASTEWATER (TOCs) AND 1% BY W	= per CCR Title	22, Section 66260.1 USPENDED SOLID	0, WASTE TH S (TSS).	fAT CONTAI	NS LESS THAN 1% BY WEIGH	HT TOTAL TOXIC ORGANICS					
<ul><li>Liquid hazardous</li><li>Liquid hazardous</li></ul>	waste with a pH l waste containing	ess than or equal to PCB's at concentrat	2.0 ion of greater	than or equa	al to 50 ppm	er CCR Title 22, Section 66268.32					
following:		free liquids associate				ons greater than or equal to the					
ARSENIC CADMIUM	500 mg/L 100 mg/L		MERCURY NICKEL	<u> </u>	20 mg/L 134 mg/L						
CHROMIUM	500 mg/L		SELENIUM	VI	100 mg/L	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
LEAD	500 mg/L		THALLIUN	И	130 mg/L						
					r equal to 1,000 mg/L r than or equal to 1,000 mg/L						
CERTIFICATION I certify under penalty of the waste to suppo are significant penalti	of law that I pe	rsonally have exam	ined and am	familiar with	h the waste through analysis	and testing or through knowledge complete. I am aware that there nt					
SPACEX			14			04/02/09					
COMPANY NAME			ZUT	HORIZED S	SIGNATURE	DATE					



#### Rho Chem Corporation, a wholly owned subsidiary of PHILIP SERVICES CORP., RCRA Land Disposal Restriction Notification Form EZ

Generator: SPACEX		EPA I.D. #: <u>CA</u>	R000191536	
Profile #: 390575-00		Manifest #: 000	0765220JJK	
The wastes identified on this form are 268. Subpart D or do not meet the applis identified below (check all boxes the	olicable prohibition levels spec	estrictions of 40 CFR Part diffied in 268.32. Pursuant	268. The wastes do not meet the treatment to 40 CFR 268.7(a), the required information	nt standards specifi ion applicable to e
(V	Treatability Group: Vastewaters contain less than 1	☐ Wastewater % filterable solids and les	□ Nonwastewater s than 1% Total Organic Carbon)	
<ul> <li>□ D001 Ignitable (except for High of D001 High TOC Ignitable (greate)</li> <li>□ D002 Corrosive managed in nor D002 Corrosive managed in CW D003 Reactive Sulfides based on D003 Reactive Cyanides based on D003 Reactive Cyanides based on</li> </ul>	D001 is the only "D" code an TOC) managed in CWA/ CWA er than 10% total organic carbo n-CWA/non-CWA-equivalent A/ CWA-equivalent/Class I SD 261.23(a)(5) n 261.23(a)(5) 261.23(a)(2),(3) and (4) managed 1.23(a)(2),(3) a	d the waste is to be combi- equivalent/Class I SDWA n) i/non Class I SDWA syste WA systems aged in non-CWA/non-C	usted or recovered.) A systems ems (Complete form UC) WA-equivalent/non Class I SDWA syste	ems (Complete ford
lf D004-43 boxes are checked, complete ar SDWA systems):	nd attach Form UC to address und	lerlying hazardous constituer	nts (unless these wastes are to be managed in C	'WA/CWA-equivalent
□         D007 Chromium         □         D008           □         D009 High mercury inorganic (>26           □         D009 Low-mercury (<260 mg/k	B Lead	Lead acid batteries inerator residue and residue and residue All D009 wastewaters  D033 Hexa D034 Hexa D035 Meth D036 Nitro e D037 Pentice D038 Pyrice D040 Trichloroethyl D041 2,4,5 ac D043 Viny	achlorobutadiene achloroethane ayl ethyl ketone abenzene achlorophenol dine achloroethylene lene -Trichlorophenol I chloride	
Note: If any bolded entries are checked (CWA) treatment process or unle		address underlying hazard	ous constituents, unless the material is treat	ed in a Clean Water
In addition, the following wastes ar				
		001-F005 section on the back	k of this form. Check the hazardous waste num	ber(s) that applies. ar
identify the constituents likely to be presen If this shipment carries additiona		addressed above iden	tify tham hara	
		EPA Waste Code	Subcategory (if applicable)	

This is a two sided form

Form EZ Revised 04/18/2007

Haz	ardou	s waste description	Regulated hazardous constitue	nts
F001 Spent halogenated solvents used in degreasing			Carbon tetrachloride Tetrachloroethylene Trichloroethylene Trichloromonofluoromethane	Methylene chloride 1,1.1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
	F002	Spent halogenated solvents	Chlorobenzene Methylene chloride 1,1,1-Trichloroethane Trichloroethylene Trichloromonofluoromethane	o-Dichlorobenzene Tetrachloroethylene 1,1,2-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
	F003	Spent non-halogenated solvents	Acetone Cyclohexanone* Ethyl benzene Methanol* Xylenes (total)	n-Butyl alcohol Ethyl acetate Ethyl ether Methyl isobutyl ketone
	F004	Spent non-halogenated solvents	<i>m</i> -Cresol <i>p</i> -Cresol Nitrobenzene	o-Cresol Cresol-mixed isomers (cresylic acid)
	F005	Spent non-halogenated solvents	Benzene 2-Ethoxyethanol Methyl ethyl ketone Pyridine	Carbon disulfide* Isobutyl alcohol 2-Nitropropane Toluene
cont	aining	nent standards for carbon disulfide, g only one, two, or all three of these ts are present in the waste.	cyclohexanone, and methanol nonwa constituents. The treatment standara	astewaters are based on the TCLP and apply to spent solvent nonwastew is for these three constituents do not apply when any of the other F001-F
Haza	ardou	s Debris		
	This sl plastin	nipment contains hazardous debris t g).	hat will be treated to comply with the	alternative treatment standards of 268.45 (e.g., macroencapsulation or a
(The subje	defin	itions of "debris" and "hazard treatment." To determine these	ous debris" are in 40 CFR 268.2. , look up the waste code in 268.4	Per 268.45, hazardous debris must be treated for each "contan 0 and list the regulated hazardous constituents for each code.)
The c	ontam	inants subject to treatment for this of	debris are identified below:	
EPA '	Waste	Code Subcategory	Contaminants subject to	treatment
	······································		1947-1944	

# Rho Chem Corporation, a wholly owned subsidiary of PHILIP SERVICES CORP., RCRA Land Disposal Restriction Notification Form UC

	Generator: SPACEX	U.S. EPA I.D.	#: <u>CAR000191536</u>
	Profile #: 390575-00	Manifest #:	000765220JJK
	means any constituent listed in 268.48, Ta	ble UTS—Universal Treatment Standard which	essed in this waste. Per 268.2(i), "underlying hazardous constitu can reasonably be expected to be present at the point of generat. d. Refer to Form-EZ (attached) for the waste code(s), treatability
1	In order to address underlying hazard	ous constituents in characteristic wastes, p	lease check the appropriate box:
Ā		268.48, and per 268.7(a), I have dete ly expected to be present in this was	ermined that there are no underlying te.
		268.48, and per 268.7(a), I have deterate. The underlying hazardous con	, ,
The	e determination of underlying hazardous	constituents was based on:	
Ŋ	Generator's knowledge of the wa	este	
	Analysis		
	I certify that I personally have examine to support this certification. I certify that this notification is true and correct to the	at as an authorized representative of the ger	nalysis and testing, or through knowledge of the waste nerator named above, all the information submitted in
	MARK DROP		04/02/09
Pri	nted Name	Signature	Date

#### List of Underlying Hazardous Constituents 40 CFR 268.48

. Circle or otherwise identify the underlying hazardous constituents present in the waste:

Organic Constituent Organic Constituent Organic Constituent Organic Constituent A2213 2-Chlorophenol Ethyl acetate Oxamyl Acenaphthylene 3-Chloropropylene Ethyl benzene Parathion

Acenaphthene Chrysene Ethyl cyanide/Propanenitrile Total PCBs(sum of all isomers, or all

Aroclors)

Acetone o-Cresol Ethyl ether Pebulate bis(2-Ethylhexyl)phthalate Acetonitrile m-Cresol

Pentachlorobenzene Acetophenone p-Cresol Ethyl methacrylate

PeCDDs(All Pentachlorodibenzo-p-dioxi 2-Acetylaminofluorene m-Cumenyl methylcarbamate Ethylene oxide PeCDFs(All Pentachlorodibenzofurans)

Cyclohexanone Acrolein Famphur Pentachloroethane Acrylamide o.p'-DDD Fluoranthene Pentachloronitrobenzene p.p'-DDD Acrylonitrile Fluorene Pentachlorophenol o.p'-DDE Aldicarb sulfone Formetanate hydrochloride Phenacetin Aldrin p.p'-DDE Formparanate Phenanthrene

o.p'-DDT 4-Aminobiphenyl Heptachlor Phenol

Aniline p,p'-DDT Heptachlor epoxide o-Phenylenediamine

Anthracene Dibenz(a,h)anthracene Hexachlorobenzene Phorate Aramite Dibenz(a,e)pyrene Hexachlorobutadiene Phthalic acid alpha-BHC 1,2-Dibromo-3-chloropropane Hexachlorocyclopentadiene Phthalic anhydride beta-BHC 1,2-Dibromoethane/Ethylene dibromide HxCDDs(All Hexachlorodibenzo-p-dioxins)Physostigmine

delta-BHC Dibromomethane HxCDFs(All Hexachlorodibenzofurans) Physostigmine salicylate gamma-BHC m-Dichlorobenzene Hexachloroethane Promecarb Barban o-Dichlorobenzene Hexachloropropylene Pronamide Bendiocarb p-Dichlorobenzene Indeno(1,2,3-c,d)pyrene Propham Bendiocarb phenol Dichlorodifluoromethane Iodomethane Propoxur Benomyl 1,1-Dichloroethane isobutyl alcohol Prosulfocarb Benzene 1,2-Dichloroethane Isodrin Pyrene Pyridine Benz(a)anthracene 1,1-Dichloroethylene Isolan

Benzal chloride trans-1,2-Dichloroethylene Isosafrole Safrole 2,4-Dichlorophenol Silvex/2,4,5-TP Benzo(b)fluoranthene Kepone

Benzo(k)fluoranthene 2,6-Dichlorophenol Methacrylonitrile 1,2,4,5-Tetrachlorobenzene

Benzo(g,h,i)perylene 2,4-Dichlorophenoxyacetic acid/2,4-D Methanol TCDDs(All Tetrachlorodibenzo-p-dioxin: Benzo(a)pyrene 1,2-Dichloropropane Methapyrilene TCDFs(All Tetrachlorodibenzofurans)

Bromodichloromethane cis-1,3-Dichloropropylene Methiocarb 1,1,1,2-Tetrachloroethane trans-1,3-Dichloropropylene Methomyl 1,1,2,2-Tetrachloroethane Bromomethane/Methyl bromide 4-Bromophenyl phenyl ether Dieldrin Methoxychlor Tetrachloroethylene

n-Butyl alcohol Diethylene glycol, dicarbamate 3-Methylcholanthrene 2,3,4,6-Tetrachlorophenol Butylate Diethyl phthalate 4,4-Methylene-bis(2-chloroaniline) Thiodicarb Butyl benzyl phthalate p-Dimethylaminoazobenzene Methylene chloride Thiophanate-methyl

2-sec-Butyl-4,6-dinitrophenol/Dinoseb 2,4-Dimethyl phenol Methyl ethyl ketone Tirpate

Carbaryl Dimethyl phthalate Methyl isobutyl ketone Toluene Carbenzadim Dimetilan Methyl methacrylate Toxaphene Carbofuran Di-n-butyl phthalate Methyl methansulfonate Triallate Carbofuran phenol 1,4-Dinitrobenzene

Methyl parathion Tribromomethane/Bromoform Carbon disulfide 4.6-Dinitro-o-cresol Metolcarb 2,4,6-Tribromophenol Carbon tetrachloride 2,4-Dinitrophenol Mexacarbate 1,2,4-Trichlorobenzene Carbosulfan 2,4-Dinitrotoluene Molinate 1,1,1-Trichloroethane 2,6-Dinitrotoluene Chlordane (alpha and gamma isomers) Naphthalene 1.1.2-Trichloroethane

p-Chloroaniline Di-n-octyl phthalate 2-Naphthylamine Trichloroethylene Chlorobenzene Di-n-propylnitrosamine o-Nitroaniline Trichloromonofluoromethane Chlorobenzilate 1,4-Dioxane p-Nitroaniline 2.4.5-Trichlorophenol 2-Chloro-1,3-butadiene Diphenylamine

Nitrobenzene 2,4,6-Trichlorophenol Chlorodibromomethane Diphenylnitrosamine 5-Nitro-o-toluidine 2,4,5-Trichlorophenoxyacetic acid/2,4,5-

1,2-Diphenylhydrazine Chloroethane o-Nitrophenol 1,2,3-Trichloropropane

bis(2-Chloroethoxy)methane Disulfoton p-Nitrophenol 1,1,2-Trichloro-1,2,2-trifluoroethane

bis(2-Chloroethyl)ether Dithiocarbamates (total) N-Nitrosodiethylamine Triethylamine

Endosulfan 1 N-Nitrosodimethylamine Chloroform tris-(2,3-Dibromopropyl)phosphate bis(2-Chloroisopropyl)ether Endosulfan II N-Nitroso-di-n-butylamine

Vernolate Endosulfan sulfate N-Nitrosomethylethylamine p-Chloro-m-cresol Vinyl chloride

2-Chloroethyl vinyl ether Endrin N-Nitrosomorpholine Xylenes-mixed isomers Endrin aldehyde Chloromethane/Methyl chloride N-Nitrosopiperidine (sum of o-,m-, and p-xylene

concentrations) 2-Chloronaphthalene N-Nitrosopyrrolidine

Inorganic Constituent Inogranic Constituent Inorganic Constituent Inorganic Constituent

Antimony Cadmium Lead Silver Arsenic Chromium (Total) Mercury-Nonwastewater from Retort Sulfides Barium Cyanides (Total) Mercury-All Others Thallium

Beryllium Cyanides (Amenable) Nickel



### Pacific Resource Recovery

3150 East Pico Boulevard, Los Angeles, CA 90023 Phone (800) 499-7145 Fax (213) 780-0078

#### LAND DISPOSAL RESTRICTION NOTIFICATION

Manifest Line # Approval #		Manife Line #	est Approval #	Manifest Line #	Approval#
					***************************************

This notification form shall be completed by the generator and shall accompany each shipment of restricted waste subject to the Land Disposal Restrictions (40 CFR 268 Subpart C).

- ➤ Complete all information in Section I.
- > Check mark all appropriate Regulated Constituents in Section II, additional applicable Sections and/or complete Section III.
- Sign and date Section IV.

SECTION					10 m 1960 10 m 1960 10 m 1960	en e	1985 P. S.					
GENERATO	R'S NAME	SPAC	-e×									
EPA I.D. NU	MBER	CAROO0191536										
MANIFEST	NUMBER	000	000765264									
TREATABIL	ITY GROUP		(Check one)	☐ Wastewa	iter	Non-Waste	water					
HAZARDOL	JS DEBRIS			☐ Yes		O No						
EPA HAZAF	RDOUS WASTE	CODE(S) -										
D001	F003	FOOS										
Notice of the state of the stat												
***************************************					W-III - 0.1 1 - 1							
	ļ											
There a	re underlying h	g hazardous con azardous constit nent Standards (	uents of concerr		neet the treat	ment standards o	of 40 CFR 268.4	8, Table				
☑ Knowled	ige of the wast	make the above producing proc he constituents	ess, raw materia	als used and rea	action produc	ts, or						
Waste anal	ysis data atta	ched?	🔾 Yes	☑	No							
1.011		يسس										
aqueous and s	'96 – ection 25179.6 ol solid waste conta	LIQUID S  the Health and Sa  fining organics has ication requiremen	been repealed fro	CRA C	ll that apply) (28a – 28i)	11a 0	11b 🛄 11c	: 🗋 11d				

#### UNIVERSAL TREATMENT STANDARDS

#### **SECTION II**

The Underlying Hazardous Constituents must be identified for waste streams which carry the EPA Waste Codes F001–F005, F039, D001 (only D001 not treated by RORGS; CMBST or POLYM), D005–D043 (only D005–D043 if treated in Non-CWA, Non-CWA equivalent or Non-SDWA facilities).

The wastes identified on the aforementioned manifest document number and bearing the EPA Hazardous Waste Number(s) identified in Section I are subject to the Land Disposal Restrictions of 40 CFR 268 Subpart C. The wastes do not meet the applicable treatment standards specified in 40 CFR 268 Subpart D or exceeds the applicable prohibition levels specified in 40 CFR 268.32 (California list wastes) or RCRA Section 3004(d). In compliance with the requirements of 40 CFR 268.7 and 268.9 we are indicating below the applicable constituents of concern.



# Pacific Resource Recovery

# 3150 East Pico Boulevard, Los Angeles, CA 90023 Phone (800) 499-7145 Fax (213) 780-0078 ADDITIONAL RESTRICTED WASTE IDENTIFICATION/ TREATMENT STANDARDS AND CERTIFICATION FORM

SEMININE									
Complete Section III if the restricted wastes (i.e., EPA Hazardous Waste Code) as listed in Section I do not meet the applicable treatment standards in 40 CFR 268.40 (Treatment Standards for Hazardous Wastes) and have not been identified as required in Section II.									
EPA Hazardoùs Waste Code	Subcategory (if applicable)	Appropriate Treatment Standard	Alternative Treatment Technology (Debris)						
		·							
	-								
			<b>5.</b>						
			9.000-6.00000000000000000000000000000000						
** · · · · · · · · · · · · · · · · · ·									
<del></del>									
			, , , , , , , , , , , , , , , , , , ,						

I hereby certify that all int knowledge and information	ormation submitted in this and all associated documents is complete and accurate to the best of my n.	f
Company Name:	SPACEX	
Authorized Signature:	Mark Drop Way	
Printed Name:	Mark Drop	
Date:	4-30-09	

	40 V			E UTS – UNIVERS	AL ING		Hor-antiennier	Contract	<del>'/</del>	iu	140
Regulatés constituen – common authe	CAS¹ HO.	Masterrater Planderd Concentration In 1967 <sup>2</sup>	Hen-wastewaist standard cottest- tration in mg/kg² uztess noted as "mg/l TCLP"	Regulated consillment — common name	CAE' #0.	Wasia weler standard concentration in mg/ <sup>2</sup>	standard concur- tration in regard union to the day "mg/, TCLP"	Régulated constituent Common Bamé	CTZ, KO'	Watelawaier ziarzóard coa centrálión in migi <sup>2</sup>	Man-wastewall risulard conce fration in mg/s taleta noise a "mg/s (CLP"
MAcenaphthylene (	208-96-8	0.059	3.4	□m-Olchlorobenzene	541-73-1	0.036	6	□p-Nitroaniline	100-01-6	0.028	28
OAcenaphtheas	83-32-9	0.059	3.4	O-Dichlorobenzene	95-50-1	0.088	6	Clo-Nitrozniline	88-74-4	0.27	14
MACEION8	67-64-1	0.28	160	Op-Dichlorobenzene	106-46-7	0.090	8	□Nitrobenzena	96-95-3	0.068	14
□Acetonitriie	75-05-8	5.6	1.8	ODichlorodilluoromethane	75-71-8	0.23	7.2	35-Nitro-o-toluidine	99-55-8	0.32	28
ПАсеторнеполе — — — — — — — — — — — — — — — — — — —	96-86-2	0.010	9.7	1.1-Dichloroethane	75-34-3	0.059	6	Oo-Mitrophenol	88-75-5	0.28	13
2-Acatylamingfluorene	53-96-3	0.059	140	1.2-Dichloroethans	107-05-2	0.21	6	☐p-Nifraphenol	100-02-7	0,12	29
☐Acrolein	107-02-8	0.29	NA NA	1,1-Dichlorosthylens	75-34-4	0.025	6	□N-Ni)rosodiethylamine	55-18-5		28
	79-06-1	19	23	Otrans-1,2-Dichloroethylene	156-60-5	0.054	30	N-Nitrosodimethylamina	62-75-9	0.40	2.3
☐ Acrylamide	107-13-1	0,24	84	12.4-Oichtorophenoi	120-83-2	0.044	14	□N-Nitroso-di-n-butiyamine	924-16-3	0.40	17
Acrylanitrila			<del></del>		87-65-0	0.044	14	ON-Nitrosomethylethylamine	10595-95-6	<del>}</del>	
☐ Aldrin	309-00-2	0.021	0.066	□2,6-Dichlorophenol	78-87-5	0.85	18	ON-Nitrosomorpholine		0,40	2.3
O4-Aminobiphenyl	92-67-1	0.13	NA	1,2-Dichloropropane		0.035	18	ON-Mitrosopiperidine	59-89-2		2.3
□Anillne —	62-53-3	0,81	14	Ocis-1.3-Dichloropropylane	10061-01-5				100-75-4	0.013	35
Anthracene	120-12-7	0.059	3.4	Olirans-1,3-Dichloropropylene	10061-02-6	0.036	18	□N-Nikrosopyrralidine	930-55-2	0.013	35
□Aramite	140-57-8	0.36	NA .	Dieldrin	60-57-1	0.017	0.13	Parathion	56-38-2	0.014	4.6
□aipha-8HC	319-64-6	0.00014	0.086	Ci Diethyl phthalate	84-66-2	0.20	28	☐ Pentachlorobenzene	608-93-5	0.055	10
Qdela-8HC	319-85-7	0,00014	0.066	p-Dimethylaminoazobenzene	60-11-7	0.13	NA	OPentachforodibenzo-ferans	NA		0.001
Qdella-BKC	319-86-8	0.023	9.066	Q2,4-Dimethyl phenol	105-87-9	0.036	14	Pentachlorodibenzo-p-dioxins	NA.	0.000063	0.001
<b>□ ратта-ВНС</b>	58-89-9	0.0017	0.066	Olmethyl phthalate	131-11-3	0.047	28	☐ Pentachloroethane	76-01-7	0.055	6
□Benz(a)anthracene	56-55-3	0.059	3.4	□DI-n-butyl phthalate	84-74-2	0.057	25	☐ Penizchieronitrobenzene	82-68-8	0.055	4.8
□Benzal chlorida	98-87-3	0.055	6.0	□1,4-Dinitrobenzene	100-25-4	0.32	2,3	OPentachlorophenol	87-86-5	0.089	7,4
□8enzene	71-43-2	0.14	10	□4,6-Dinttro-o-cresol	534-52-1	0.28	160	☐Phenacetin	62-14-2	0.081	16
□ Benzo(a) pyrane	50-32-8	0.061	3.4	Q2.4-Dinitrophenol	51-28-5	0.12	160	DPhenanthrene	85-01-8	0.059	5.6
O Benzo(b)/luoranthene	205-99-2	0.11	6.8	Q2,4-Oinkrololuene	121-14-2	0.12	140	☐Phenol	108-95-2	0.039	5.2
Benzo(g,h,i)perylene	191-24-2	0.0055	1.8	☐2.6-Dinitratoluene	606-20-2	0.55	28	□ Phorate	298-02-2	0.021	4.6
Benzo(k) iluoranihene	207-08-9	0.11	5.8	ODI-n-octyl phthalate	117-84-0	0.017	28	☐Phthalic acid	100-21-0	0.055	28
		0.036	7.2	QDI-n-propyfilitrosamine	621-64-7	0.40	14	OPhthalic anhydride	85-44-9	0.055	
Obis-(2-Chloroethoxy) methana	111-91-1										28
Obis-(2-Chioroathyl) ether	111-44-4	0.033	6.0	ODIphenylamine	122-39-4	0.92	13		23950-58-5	0.093	1.5
Obis-(Chlorolsopropyl) eiher	108-60-1	0.055	7.2	1,2-Diphenylhydrazine	122-68-7	0.087	NA	OPropanenitrile (Ethyl cyanide)	107-12-0	0.24	360
Obis-(Ethylhexyl) phthalate	117-81-7	0.28	28	O Diphenyinitrosamine	88-30-6	0.92	13	☐Pyrene .	129-00-0	0.067	8.2
□ Bromodichioromethane	75-27-4	0.35	15	C1,4-Dioxane	123-91-1	NA	170	OPyridine	110-86-1	0.014	16
OBromomethane (methyl	_:			Op-Dimethylaminoazobenzene	60-11-7	0.13	NA (	□ Safrole	94-59-7	0.081	22
bromide)	74-83-9	0.11	15	□Disulfoton	298-04-4	0.017	6.2	□Silvex (2,4,5-TP)	93-72-1	0.72	7.9
24-Bromophanyl chanyl ether	101-55-3	0.055	15	□Endosultan I	939-98-8	0.023	0.066	□2,4,5-T	93-76-5	0.72	7,9
□ b-Butyl alcohol	71-36-3	5.6	2,6	□Endosulfan II	33213-6-5	0.029	0,13	□1,2,4,5-Tetrachlorobenzene	95-94-3	0.055	14
☐ Butyi benzyi phthaiate	85-68-7	0.017	28	CEndosullan sulfate	1-31-07-8	0.029	0.13	@Tetrachiorodibenzo-furans	NA	0.000063	0.001
🗆 2-sec-Butyl-4,6-dinitrophenol				C) Endrin	72-20-8	0.0028	0.13	QTetrachiorodibenzo-p-dioxins	NA	0.000063	0.001
dinoseb	88-B5-7	0.066	2.5	Q Endrin aldehyds	7421-93-4	0.025	0.13	1,1,1,2-Tetrachloroethane	630-20-6	0.057	6.0
Carbon disulfida	75-15-0	3.8	4.8 TCLP	© Ethyl acetate	141-78-6	0.34	33	Q1.1.2.2-Tetrachlorgethane	79-34-6	0.057	6.0
Carbon tetrachloride	56-23-5	0,057	6.0	OEthyl benzene	100-41-4	0.057	10	☐ Tetrachloroethylana	127-18-4	0.056	6,0
🗆 Chlordane (aipha & gamma 👚				☐Ethyl ether	60-29-7	0.12	160	223.4.6-Tetrachlorophenoi	58-90-2	0.030	7.4
isomers)	57-74-9	0.0033	0.26	Ethyl methacrylate	97-63-2	0.14	160	Oxfoluene	108-88-3	0.030	10
Op-Chloroaniline	106-47-5	0.46	16	☐ Ethylene oxide	75-21-8	0.12	NA NA	O Toxachene	8001-35-2	0.0095	2.6
□ Chlorobenzene	108-90-7	0.057	6.D	O Famphur	5Z-8S-7	0.017	15	OTribromomethane (bromoform)	75-25-2		15
□ Chlorobenzilate	510-15-6	0.10	NA .	OFluoranthene	206-44-0	0.017	3.4			0.63	
⊇2-Chloro-1,3-butadiene	126-99-8	0.057	D.28					1,2,4-Trichlorobenzene	120-82-1	0.055	19
☐ Chiorodibromomethane	124-48-1	0.057	15	Ofluorene	88-73-7	0.059	3,4	11,1,1-Trichloroethane	71-55-6	0.054	5.0
⊃Chłoroethane	75-00-3	0.27	6.0	Heptachlor	76-44-8	0.0012	0.066	1,1,2-Trichloroethane	79-00-5	0.054	6.0
DChloroform	67-65-3	0.046	6.0	U Heptachlor epoxide	1024-57-3	0.016	0.066	☐ Trichioroethylene	79-01-6	0.054	6.0
Ap-Chloro-m-cresol	59-50-7	0.018	14	☐ Hexachiorobenzene	118-74-1	0.055	10	☐ Trichforemenotiupremethane	75-69-4	0.020	30
22-Chiaraethy) vinyl ether	110-75-B	0.062	NA	Hexachlorobutzdiene	87-68-3	0.055	5.6	□2,4,5-Trichlorophenal	95-95-4	0.18	7.4
OChloromethane (mathyl				Hexachtorodibenzo-furans	NA	0.000063	0.001	2.4,6-Trichtorophenal	88-06-2	0.035	7.4
chloride)	74-87-3	0.19	30	CHexachlorodibenzo-p-dioxins	NA	0.000063	0.001	1.2,3-Trichigrogropane	96-18-4	0.85	30
32-Chioronaphthaiene	91-8-7	0.055	5.6	☐ Hexachlorocyclopentadiene	77-47-4	0.057	2.4	1,1,2-Trichlorg-1,2,2-			
⊇2-Chiorophenol	95-57-8	0.044	5.7	□ Hexachloroethane	67-72-1	0.055	30	tritluoroethane	76-13-1	0.057	30
3-Chloropropylane	107-05-1	9.036	30	Hexachloropropylane	1888-71-7	0.035	30	□Vinyl chloride	75-01-4	0.27	6.0
Chrysene	218-01-9	0.059	3.4	□Indena (1.2.3-c,d)pyrene	193-39-5	0.0055	3.4	Sylenes (total)	1330-20-7	0.32	30
Dg-Cresol	196-44-5	0.77	5.6	Olodomethane	74-88-4	0.19	65	☐Total PCBs	1336-35-3	0.1	10
Om-Cresol	108-39-4	0.77	5.6	Olsobutyi alcohol	78-83-1	5.6	170	□Antimony	7440-36-0	1.9	0.07 TC1
Do-Cresol	95-48-7	0.71	5.6	Olsodrin		<del></del>		□Arsenic	7440-38-2		5,0 TCL
□ Cyclohexanone			0,75 TCLP		465-73-6	0.021	0,066	□Barlum	7440-39-3		21 TCLP
	108-94-1	0.36	0,73 ICLP	□ isosafrole	120-58-1	0.081	2,5	☐ Baryllium	7440-41-7		0.02 TCI
□2-4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	0.72	10	□ Kepane	143-50-8	0.0011	D.13	☐ Cadmium			
	53-19-0			☐ Methacrylonitrile	126-98-7	0.24	84		7440-43-9	I	0.2 TCL
		0.023	0.087	☐ Methanol	67-56-1	5.6	0,75 TCLP	Chromium (lotal)	7440-47-3	<del></del>	O.85 TCI
□p,p'-000	72-54-8	0.023	0.087	O Methapyrilene	91-80-5	0.081	1,5	□Cyanide (total)	57-12-5	<del></del>	590*
□ σ.ρ'-DDE	3424-82-6	0.031	0.087	Methoxychlor	72-43-5	0.25	0.18	□Cyanide (amenable)	57-12-5	<del></del>	304
.Jp.y'-00E	72-55-9	0.031	0.087	3-Methylchloanthrene	56-49-5	0.0055	15	□ Fluoride	16964-48-8	35	NA
_10.p'-00T	789-02-6	0.0039	0,087	Q4.4-Methylene-bis-				∆Lead	7439-92-1	0.69	0.75 TCL
]p.p'-00T	50-29-3	0.0039	0.087	(2-chloroanilina)	101-14-4	0.50	30	Mercury - NWW from Refort	7439-97-6	0.15	0.20 TC
Dibenzo(a,s)pyrene	192-55-4	0,061	NA	Methylane chloride	75-09-2	0.089	30	Mercury - all others	7439-97-6		0.025 TC
Dibenzo(a,h)anthracene	53-70-3	0.055	8.2	Methyl ethyl ketone	78-93-3	0.28	36	Nickel	7440-02-0	<del> </del>	13.6 TC
Atris-(2,3-Dibromopropyi)				OMethyl Isobutyl ketone		<del></del>					<del> </del>
phosphate .	126-72-7	0.11	0.10		108-10-1	0.14	33	Oselenium <sup>2</sup>	7782-49-2		5.7 TCI
1,2-Dibromo-3-Chloropropane	96-12-8	0.11	15	Methyl methacrylate	80-62-6	0.14	160	☐Sl(ver	7440-22-4	<del></del>	0.11 TC
	20-16-0	n.11		Methyl methansulfonate	66-27-3	0.018	NA	□Sulfide	8496-25-8	14.0	NA
.] [ 2-Dibromostbana (athulan-				Methyl Parathion	298-00-0	0.014	4.6	☐ Titallium	7440-28-0	1,4	0.20 TC
11,2-Dibromosthane (ethylene dibromide)	105-93-4	0.028	15		430-00-0	3.0.7		- 11,010 E171	1440-20-0	1.4	- V.L. I ()
11,2-Dibromosthane (ethylene dibromide)  Dibromomethane	105-93-4 74-95-3	0.028	15 15	Q Naphthalene	91-20-3	0.059	5.6	□Vanadinm,	7440-62-2		1.6 TC

#7436



#### Siemens Water Technologies Corp.

## LAND DISPOSAL RESTRICTION NOTIFICATION FORM

Manifest Num# 0007	65308 LIK Gon	aratas Name - C	TD 4 (272 Y22Y	'	<b>Y</b>		
RCRA HAZARDOUS	WASTE INFORM	ATION	SPACE EXI	LORATIO	N EPA# CAR000191536		
U.S.F. PROFILE NUMBER/ MANIFEST LINE ITEM NUMBER	ER/ MANIFEST D, F, K, U & P NONWASTEWATER Per CCR Title 22 Section					Hazardous Debris Subject To CCR Title 22, Sec 66268.45	
1)P177814	D002,D007				☐For:		
2)AP169390	D006,D007				☐ For:		
3)AP180587					☐ For:		
4)350728-48					☐ For:	Π	
ADDITIONAL INF	ORMATION F	OR D001, D002	, D012-43	F001-5 &	F039 WASTE STREAM	S: (check one)	
Inere are no uno	terlying hazardo	ous constituents (L	JHCs) prese	nt			
☐ There <u>are</u> underly 66268.48	ving hazardous	constituents (UHC	s) present w	hich do not	meet treatment standards p	er CCR Title 22, Section	
(Use the attache	ed UTS Table ar	nd check the appro	opriate cons	tituent(s) pro	esent in the waste stream)		
DETERMINATION							
Knowledge of the	process gener	ating the waste an	d the raw m	aterials use	d and the reaction products		
Results from anal	ytical testing		Anal	ytical results	s attached I YES INC	)	
TERM DEFINITION * WASTEWATER = (TOCs) AND 1% BY WE	≠ per CCR Title 2	22, Section 66260.10 JSPENDED SOLIDS	, WASTE TH. (TSS).	AT CONTAIN	IS LESS THAN 1% BY WEIGHT	TTOTAL TOXIC ORGANICS	
<ul> <li>Liquid hazardous v</li> </ul>	vaste containing P	oo man or equal to z	i.U Sp. of grooter t	5	t- 50 ·	CCR Title 22, Section 66268.32	
		ee liquids associated	with any soli	ds/sludge, co	ntaining metals at concentration	ns greater than or equal to the	
ARSENIC	500 mg/L 100 mg/L		MERCURY		20 mg/L		
CHROMIUM	500 mg/L		NICKEL SELENIUM		134 mg/L		
LEAD	500 mg/L		MILLIANT		100 mg/L 130 mg/L		
<ul> <li>Liquid hazardous w</li> </ul>	aste, that contain	s HOC's in total cond	centration are	ater than or e	acital to 1 000 mail		
Non-liquid RCRA n	azardous waste c	ontaining HOC's in t	otal concentra	ation greater t	than or equal to 1,000 mg/L		
certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification. I believe that the information I have submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment							
COMPANY NAME		_	AUTH	ORIZED SIG	NATURE	06/12/09 DATE	
			<del> </del>				



### Pacific Resource Recovery

3150 East Pico Boulevard, Los Angeles, CA 90023 Phone (800) 499-7145 Fax (213) 780-0078

#### LAND DISPOSAL RESTRICTION NOTIFICATION

Mani Line	feat # Approval#	Manifesi Line #	Approval #	Manifest Line #	Approval#
1	28090206				
2	28060111				

This notification form shall be completed by the generator and shall accompany each shipment of restricted waste subject to the Land Disposal Restrictions (40 CFR 268 Subpart C).

- > Complete all information in Section I.
- > Check mark all appropriate Regulated Constituents in Section II, additional applicable Sections and/or complete Section III.
- ➤ Sign and date Section IV.

	Bar Ser											
GENERATO	R'S NAME	SPACE	SPACEX.									
EPA I.D. NU	MBER	CARUUU191536										
MANIFEST	NUMBER	0007	65352	<b>ボ</b> ス								
TREATABIL	ITY GROUP		(Check one)	☐ Wastewa	ater	☑ Non-Wast	ewater					
HAZARDOU	IS DEBRIS			☐ Yes		☑ No						
EPA HAZAR	DOUS WASTE	CODE(S) -										
0001	5003	FU0.5										
		<u> </u>		,								
There a	re underlying h	-	stituents of concuern uents of concern see Section II).	·	neet the treat	ment standards	of 40 CFR 26	8.48, Table				
Knowled	ige of the wast	make the above e producing prod the constituents	ess, raw materia	is used and rea	action product	s, or						
Waste anal	Waste analysis data attached? ☐ Yes ☐ No											
			•									
aqueous and s	96 – action 25179,6 of solid waste conta	the Health and Sa	OLID afety Code, NON-R been repealed from its.	CRA C	ill that apply) (28a – 28i)	11a C	) 11b	11c 🔾 11d				

#### UNIVERSAL TREATMENT STANDARDS

The Underlying Hazardous Constituents must be identified for wasta streams which carry the EPA Wasta Codes F001–F005, F039, D001 (only D001 not treated by RORGS; CMBST or POLYM), D005–D043 (only D005–D043 if treated in Non-CWA, Non-CWA equivalent or Non-SDWA facilities).

The wastes identified on the aforementioned manifest document number and bearing the EPA Hazardous Waste Number(s) identified in Section I are subject to the Land Disposal Restrictions of 40 CFR 268 Subpart C, The wastes do not meet the applicable treatment standards specified in 40 CFR 268 Subpart D or exceeds the applicable prohibition levels specified in 40 CFR 268.32 (California list wastes) or RCRA Section 3004(d). In compliance with the requirements of 40 CFR 268.7 and 268.9 we are indicating below the applicable constituents of concern.



# 3150 East Pico Boulevard, Los Angeles, CA 90023 Phone (800) 499-7145 Fax (213) 780-0078 ADDITIONAL RESTRICTED WASTE IDENTIFICATION/ TREATMENT STANDARDS AND CERTIFICATION FORM

Complete Section III if the restricted wastes (i.e., EPA Hazardous Waste Code) as listed in Section I do not meet the applicable treatment standards in 40 CFR 268.40 (Treatment Standards for Hazardous Wastes) and have not been identified as required in Section II.					
EPA Hazardous Wasta Code	Subcategory (if applicable)	Appropriate Treatment Standard	Àlfernative Treatment Technology (Debris)		
3	_		17.2		
		·			
	·				
	· .				
			2		
•					
			~		
77.00					

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.
Company Name: SPACEX
Authorized Signature:
Printed Name: MARK DROP
Date: 07-21.09

************	40 CFR 268.48 TABLE 015 - UNIVERSAL THEATMENT STANDARDS (Continued)
saits a	means Chamical Abstract Services. When the waste code and/or regulated constituents are described as a combination of a chemical with its and/or esters, the CAS number is given for the parent compound only.
<sup>2</sup> Conce	entration standards for wastewaters are expressed in mg/l are based on analysis of composite samples.
based treatme	
10 gran	Cyanides (Total) and Cyanides (Amenable) for non-wastewaters are to be analyzed using Method 9010 or 9012, found in "Test Methods for ting Solid Waste, Physical/Chemical Methods", EPA Publication SW-846, as incorporated by reference in 40 CFR 260.11, with a sample size of ms and a distillation time of one hour and 15 minutes.
<sup>5</sup> These	constituents are not "underlying hazardous constituents" in characteristic wastes, according to the definition at §268,2 (i).
	en August 26, 1996, and August 26, 1997, these constituents are not "underlying hazardous constituents" as defined at §268.2 (I) of this Part.  IA means not applicable.
Pleas	se complete as applicable:
Waste: on the	s with organic constituents having treatment standards expressed as concentration levels based in whole or in part analytical detection ilmit alternative specified in §268.40(d).
0	I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the non-wastewater organic constituents have been treated by combustion units as specified in 268.42. Table 1. I have been unable to detect the non-wastewater organic constituents, despite having used best good-faith efforts to analyze for such constituents, I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
Wastes Proced	s with treatment standards expressed as concentrations in the waste extract Toxicity Characteristic Leaching dure (TCLP).
<u> </u>	I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
ন্ত	Alternative Treatment Standard Lab Pack
	Manifest Line No. Z
<u> </u>	I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes that have not been excluded under Appendix IV to 40 CFR Part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.
	I hereby certify under penalty of law that there are no PCBs (polychlorinated biphenyls) contained in the oil waste being manifested to Pacific Resource Recovery. I also understand that a sample of the load will be retained and that the generator will be responsible for the clean-up of contaminated equipment, tanks, etc. if PCBs are present in the waste.
Benzen For Chen ONLY:	e NESHAP Control Requirement: nical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRA TSDFs handling wastes subject to 40 CFR 61 subpart FF
	This waste is a "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR 61 Subpart FF.
	Manifest Line No.
aliforn	nia List Wastes:
	Liquid hazardous wastes having a pH less than or equal to 2.0
	Liquid hazardous wastes containing PCBs at a concentration greater than or equal to 50 ppm
u I	Liquid hazardous wastes that contain HOCs in total concentration greater than or equal to 1000 mg/l
	Nonliquid hazardous wastes containing HOCs in total concentration greater than or equal to 1000 mg/kg
	Free (amenable to chlorination) cyanides greater than or equal to 1000 mg/l One or more of the following metals greater than or equal to the following:
	Arsenic and/or compounds; 500 mg/l
	Cadmium and/or compounds: 100 mg/l
	Chromium and/or compounds: 500 mg/l Lead and/or compounds: 500 mg/l
	Mercury and/or compounds: 20 mg/i
	Nickel and/or compounds: 134 mg/l Selenium and/or compounds: 100 mg/l Thallium and/or compounds: 130 mg/l
	·

	700	4	Mes-vasievaler	E 019 - OMAEUG	7	Waterester	(Nos-wastemater	NDARDS (Continued	-1/  -	100.	In-
Regulati centilitesi - istrama aessa	CAS¹ HO.	Wastermilet standard contendentica in regul	Mandard content	Requisied contiles of — ce invoce sierie	CAS! HO.	standard concentration in mg/	DESCRIPTION CONCEST	Regulated constituent — communication	CAS HO.	Maniewier starzeiard conscientalia [L. mig/2	Hen-wastawa standard come fration in mage values noted a mage TCLP
Clayenaphthylene	208-96-8	0.059	3.4	□m-Olchlorobenzene	541-73-1	0.036	5	□p-Nitroaniline	100-01-6	0.028	28
Oxcensohthene	83-32-9	0.059	3.4	☐o-Olchloroberizena	95-50-1	0.088	6	□ o-Nimozoniine	88-74-4		14
MACETON8	87-64-1	0.28	160	□p-Dichlorobenzene	106-46-7	0.090	6	□Nitrobenzene	98-95-3	0.068	14
☐ Acetonitrile	75-05-8	5.6	1.8	DDichtorodilluoromethane	75-71-8	0.23	7.2	05-Nilro-o-tokridine	99-55-8		28
☐Acetophenone ′	95-86-2	0.010	9.7	Q1,1-Dichiorosthans	75-34-3	0.059	- 6	Oo-Nitropheno!	88-75-5	0,28	13
□2-Acstylaminofluorene	53-96-3	0.059	140	1.2-Dichlorgathane	107-06-2	0.21	6	Op-Mitrophenol	100-02-7	0.12	29
☐Acrolein	107-02-8	0.29	NA NA	1,1-Dichlorgethylane	75-34-4	0.025	6	QN-Nitrosodiethylamine	55-18-5	0.40	28
Clacryramide	79-06-1	19	23	☐trans-1,2-Dichloroethylene	158-60-5	0.054	30	CIN-Nitrosodimethylamine	62-75-9	0.40	2.3
Acrylonitrite	107-13-1	0,24	84	2.4-Oichtorophenol	120-63-2	0.044	14	□N-Nitroso-di-n-buityamine	924-16-3	0.40	17
ClAidrin	309-00-2	0.021	0.068	Q2,6-Dichlorophenol	87-65-0 78-87-5	0.044	14	ON-Nitrosomethylethylamine	10595-95-6	0.40	2.3
□4-Aminobiphenyl □Aniline	92-67-1 62-53-3	0.13 0.81	NA 14	1,2-Dichloropropans Cis-1,3-Dichloropropylens	10061-01-5	0.036	18	○N-Nitrosomorpholine ○N-Nitrosogigeridine	59-89-2		2.3
□Anihracane	120-12-7	0.059	3.4	Otrans-1,3-Dichloropropylane	10061-02-6	0.036	18	OH-Microsopyrealiding	100-75-4 930-55-2	0.013	35
□Ananile □Aramile	140-57-8	0.059	NA NA	ODIaldrin	80-57-1	0.017	0.13	OParathion	56-38-2	0.013	35
Calpha-8HC	319-84-6	0.00014	0.086	Diethyl phthalate	84-66-2	0.20	28	QPentachlorobenzene	508-93-5	0.014	4.6 10
Obeta-8HC	319-85-7	0,00014	0.068	Op-Dimethylaminoazobenzens	60-11-7	0.13	NA AN	Pentachiorodibenzo-furans	NA	0.000035	0.001
Odella-8HC	319-86-8	0.023	0.066	☐2,4-Dimethyl phenol	105-87-9	0,036	14	OPentachlorodibenza-p-dioxins	N/A	0.000053	0.001
Податта-внс	58-89-9	0.0017	0.066	ODImethyl phthalate	131-11-3	0.047	28	QPentachioroethage	76-01-7	0.055	б. б
☐Benz/alanthracene	55-55-3	0.059	3.4	Oli-n-butyi phthalate	84-74-2	0.057	25	☐ Pentachleronitrobenzene	82-68-8	0.055	4.8
O Benzai chlorida	98-87-3	0.055	6.0	1,4-Distrobenzene	100-25-4	0.32	2.3	OPentachiorophenui	87-86-5	0.033	7.4
□Senzane -	71-43-2	0.14	10	Q4,6-Dinnra-a-cressi	534-52-1	0.2B	160	QPhenacetin	52-44-2	0.081	16
Овепхо(а) ругепе	50-32-8	0.051	3.4	Q2.4-Dinitrophenol	51-28-5	0.12	160	☐ Phénaothréns	85-01-8	0.059	5.6
□ Benzo(b)fluoranthene	205-99-2	0.11	6,8	Q2.4-Dinhrololuene	121-14-2	0.32	140	□Phenol	108-95-2	0.039	5.2
□ Benzo(g.h.l)perylana	191-24-2	0.0055	1.8	□2,6-Dichtrotoluene	606-20-2	0.55	28	Phorate	298-02-2	0.021	4.6
Benzo(k)fluoranthene	207-08-9	0.11	5.8	ODi-n-octyl phihalate	117-84-0	0.017	28	☐Phthalic acid	100-21-0	0.055	28
Dbis-(2-Ch(prosthoxy) methans	151-91-1	0.036	7.2	DDI-n-propythitrosamine	621-64-7	0.40	14	OPhthalic anhydride	85-44-9	0.055	28
Dbis-(2-Chiprosthyl) ether	111-44-4	0.033	6.0	ODippenylamine	122-39-4	0.92	13		23950-58-5	0.093	1.5
Obis-(Chloroisopropyl) ather	108-60-1	0.055	7.2	Cl1,2-Diphenyihydrazine	122-68-7	0.087	NA	CiPropaganitrile (Ethyl cyanide)	107-12-0	0.24	360
Obis-(Elftythexyl) phihalate	117-81-7	0.28	28	□ Diphenyinitroszmine	86-30-6	0.92	13	□Pyrene	129-00-0	0.067	8.2
DBromodichioromethane	75-27-4	0.35	15	□1,4-Dioxane	123-91-1	NA	170	□Pyridine	110-86-1	0,014	16
DBromomethane (methyl	-			Op-Dimethylaminoazobenzene	60-11-7	0.13	NA .	☐Safrole	94-59-7	0.081	22
bromide)	74-83-9	0.11	15	Olsuffoton	298-04-4	0.017	6.2	☐Silvex (2.4,5-TP)	93-72-1	0.72	7,9
14-Bromophenyl phenyl ether	101-55-3	0.055	15	ClEndosullan i	939-98-8	0.023	0.066	□2,4,5-T	93-76-5	0.72	7.9
Db-Butyl alcohol	71-36-3	5,6	2.6	□Endosulfan II	33213-6-5	0.029	0.13	Q1,2,4,5-Tetrachiprobenzene	95-94-3	0.055	14
DButyl benzyl phthalate	85-68-7	0.017	28	□Endosullan sulfate	1-31-07-8	0,029	0,13	OTetrachicredibenzo-furans	NA	0.000063	0.001
22-sec-Buryl-4,6-dintrophenol				□Endrin	72-20-8	0,0028	0,13	QTetrachiorodibenzo-p-dioxins	NA.	0.000063	0,001
dinoseb	88-85-7	0,066	2.5	☐ Endrin aidehyde	7421-93-4	0.025	0,13	1.1,1,2-Tetrachioroethane	630-20-6	0.057	6.0
Carbon disuttide Carbon tetrachloride	75-15-0	3.8	4.8 TCLP	CEthyl acetate	141-78-6	0.34	33	□1,1,2,2-Tetrachiorgethane	79-34-6	0.057	6.0
<del></del>	56-23-5	0.057	6.0	□Ethyl benzene	100-41-4	0.057	10	Californative Tetrachioroethylene	127-18-4	0.056	6.0
3Chlordans (aipha & gamma isomers)	57-74-9	0.0033	0.26	☐ Ethyl ether	60-29-7	0.12	160	C12/3,4,6-Tetrachlorophenol	58-90-2	0,030	7.4
Dp-Chtoroaniline	106-47-8	0.48	16	☐Ethyl methacrylate	97-63-2	6.14	150	C≦Toluene	108-88-3	0,080	10
O Chiorobenzena	108-90-7	0.057	6.0	☐Elhylene oxide	75-21-8	0.12	NA .	☐ Toxaphene	8001-35-2	0.0095	2,6
1 Chlorobenzliste	510-15-6	0.10	NA	O Famphur	52-85-7	0.017	15	Carribromomethane (Dromotum)	/5-25-2	0.63	15
32-Chibro-1,3-butadiene	126-99-8	0.057	0.28	O Fluoranthene	206-44-0	0.068	3.4	□1,2,4-Trichlorobenzene	120-82-1	0.055	19
3 Chloredibromomethana	124-48-1	0.057	15	☐ Fluorene	88-73-7	0,059	3,4	Q1,1,1-Trichlorosthane	71-55-6	0.054	6.0
Chloroethane	75-00-3	0.27	6.0	Heptachlor	75-44-5	0.0012	0.066	1,1,2-Trichtoroathane	79-00-5	0.054	6.0
3Chloroform	67-66-3	0.046	6.0	☐ Haptachlor epoxide	1024-57-3	0.016	0.066	☐ Trichtoroenhylene	79-01-6	0.054	6.0
3p-Chloro-m-cresol	59-50-7	0.018	14	☐Hexachiorobenzene	118-74-1	0.055	10	☐ Trichloromonolluoromethane	75-69-4	0.020	30
32-Chloroethyl vinyt ether	110-75-8	0.062	NA.	□Hexachiorobutadiene	87-68-3	0.055	5.6	Q2.4.5-Trichlorophenal	95-95-4	0.18	7.4
OChloromethane (methyl				Hexachlorodibenzo-lurans	NA	0.000063	0.001	☐2.4.5-Trichlorophenol	88-06-2	0.035	7.4
chloride)	74-87-3	0.19	30	□Hexachiomdibenzo-p-dioxins	AM	0.000063	0,001	1.2.3-Trichioropropane	96-18-4	0.85	30
12-Chloronaphthalene	91-8-7	0.055	5,6	☐ Hexachlorocyclopentacieπe	77-47-4	0.057	2,4	1,1,2-Trichloro-1,2,2-	70 /*		<i>a</i> -
22-Chlorophenol	95-57-8	0.044	5.7	□ Hexachloroethans	67-72-1	0.0\$5	30	trifluoroethane	76-13-1	0.057	30
03-Chieropropylane	107-05-1	0.036	30	☐ Hexachloropropylene	1888-71-7	0,035	30	CiVinyi chlorida	75-01-4	0,27	6,0
2Chrysene	218-01-9	0,659	3.4	□Indens (1,2,3-c,d)pyrane	193-39-5	0.0055	3.4	☐Xyienes (total) ☐Total PCBs	1330-20-7	0,32	30
Do-Cresol	106-44-5	0.77	5.6	□lodomethace	74-88-4	0.19	65		1336-36-3	0,1	10
Om-Cresol	108-39-4	0.77	5.6	□lsobutyl zicohol	76-83-1	5.6	170	☐Antimony	7440-35-0	1.9	9.07 TCL
Jo-Cresol	95-48-7	0.11	5.6	☐isodrin	465-73-6	0.021	0.068	OArsenic OBarium	7440-38-2	1.4	5.0 TCL
OCyclohexanone	103-94-1	85.0	0.75 TCLP	☐isosatrole	120-58-1	0.081	2.5		7440-39-3	1.2	21 TCLP
02-4-Dichlerophenoxyacetic acid (2,4-D)	94-75-7	0,72	10	OKepone	143-50-8	0.0011	0.13	□ BeryUlum □ Cadmium	7440-41-7	0.82	0.02 TCL
30'8,-DDB	53-19-0	0.023	0.087	Methacrylonitrile	126-98-7	0.24	84	☐ Chromium (total)	7440-43-9	0,69	0.2 TCL
3p,g'-0DD	72-54-8	0.023	0,087	OMethanol	67-56-1	5.6	0.75 TCLP	Cyankte (total)	7440-47-3	2.77	0.85 TCL 590*
lo.p'-DDE	3424-82-5	0.023	0.087	☐ Methapyrilene	91-80-5	0.051	1,5	Cyanide (amenable)	57-12-5 57-12-5	1,2 0,86	304
<b>30,9'-00€</b>	72-55-9	0.031	0.087	☐ Mathoxychlor	72-43-5	0.25	0.18	☐ Fluoride	16964-48-8		NA NA
TGG-'9,0	789-02-6	0.0039	0.087	O3-Methylchkoanthrene	56-49-5	0.0055	15	Oleid Oleid			
lp,p'-09T	50-29-3	0.0039	0.087	Q4.4-Methylene-bis-	ξη1.σ4 z	0.50	70		7439-92-1	0.69	G.75 TCL
Diberzo(2,5)pyrena	192-65-4	0.0039	NA	(2-chloroaniline)	101-14-4	0.50	30	Mercury - NWW from Retort	7439-97-6	0.15	0.20 TCL
Dibenzo(a,h)anthracene	53-70-3	0.055	8.2	OMethylane chloride	75-08-2	0.089	30	Mercury – all others	7439-97-6	0.15	0.025 TCL
Itris-(2,3-Olbromopropyi)	22.10.2	0.003	0.4	Methyl ethyl kerone	78-93-3	0.28	36	Nickel	7440-02-0	3,98	13.6 TCL
phosphate ·	126-72-7	0.11	0.10	Methyl Isobutyl ketone	108-10-1	0.14	33	□ Selenium*	7782-49-2	0.82	5.7 TCL
1,2-Dibromo-3-Chiorograpans	96-12-8	D,11	15	Methyl methacrylate	80-62-6	0.14	160	OSliver	7440-22-4	0,43	0.11 TC
11,2-Dibromoethane (ethylene	-, -, -,			Methyl methansulfonate	66-27-3	0.018	NA NA	☐Sulfide	8496-25-8	14.0	NA
dibromide)	105-93-4	0.028	15	OMethyl Parathion	298-00-0	0.014	4.6	Q Thaillium	7440-28-0	1,4	0.20 TCL
Dibromomethana	74-95-3	0.11	15	ONaphthalene	91-20-3	0.059	5,6	□Vanadium'	7440-62-2	4.3	1.6 TGL
				□2-Naphthylamins	91-59-8	0.52	NA	DZIne <sup>s</sup>	7440-66-5	2.61	4.3 TCL

#### LAND DISPOSAL RESTRICTION NOTIFICATION FORM

B6 15 t Nove - 00076	FOEA LIV. Com	erator Name :	CD A	CEX	EPA# CAR0001915	:26
Manifest Num.00076 RCRA HAZARDOUS			SIA	CEA	EFA# CARGOOTSTS	
U.S.F. PROFILE NUMBER/ MANIFEST LINE ITEM NUMBER	List all D, F, K, U & P Codes	Subcategory (IF ANY)		WATER*/ TEWATER NWW	California List ** Per CCR Title 22, Section 66268.32	Hazardous Debris Subject To CCR Title 22, Sec 66268.45
1) AP169389	D007			х	□For:	
2) AP180587				х	☐ For:	
					☐ For:	
					For:	
ADDITIONAL INF	ORMATION F	OR D001, D002	2, D012-43	, F001-5 8	& F039 WASTE STREAM	IS: (check one)
There are no un	derlying hazard	ous constituents (	UHCs) prese	ent		
☐ There <u>are</u> under 66268.48	ying hazardous	constituents (UHC	Os) present v	vhich do no	t meet treatment standards	per CCR Title 22, Section
(Use the attach	ed UTS Table a	and check the app	ropriate cons	stituent(s) p	resent in the waste stream)	
DETERMINATIO	N BASED UPO	N : (check one)				
Knowledge of th	e process gene	rating the waste a	nd the raw n	naterials us	ed and the reaction product	S
☐ Results from an	alytical testing		Ana	lytical resul	ts attached 🛛 YES 🔻 🗎 N	10
***********						
TERM DEFINITION * WASTEWATER (TOCs) AND 1% BY V	= per CCR Title			HAT CONTAI	NS LESS THAN 1% BY WEIG	HT TOTAL TOXIC ORGANICS
				BBOURE		COD Title 00 C CC000 00
		ING HAZARDOUS V less than or equal to		PROHIBITE	D FROM LAND DISPOSAL: p	er CCR Title 22, Section 66268.32
		PCB's at concentra		than or equa	al to 50 ppm	
<ul> <li>Liquid hazardous</li> <li>1,000 mg/L</li> </ul>	waste, including	free liquids associa	ted with any s	olids/sludge	containing free cyanide at cor	ncentrations greater than or equal to
<ul> <li>Liquid hazardous</li> </ul>	waste, including	free liquids associate	ed with any so	olids/sludge,	containing metals at concentrat	ions greater than or equal to the
following: ARSENIC	500 mg/L		MERCUR	Y	20 mg/L	
CADMIUM	100 mg/L		NICKEL		134 mg/L	
CHROMIUM	500 mg/L		SELENIU		100 mg/L	
LEAD	500 mg/L		THALLIU		130 mg/L	
					r equal to 1,000 mg/L	
	hazardous waste	containing HOC's ii	n total concen	tration greate	er than or equal to 1,000 mg/L	
of the waste to supp	ort this certificat	ion. I believe that t	he information	on I have su	bmitted is true, accurate and	and testing or through knowledge complete. I am aware that there
SPACEX	ues for submittir	iy a iaise certificati	on, meneme	Title possib	ility of a fine and imprisonme	7.21.09
COMPANY NAME		<del>.</del>	AU	THORIZED	SIGNATURE	DATE



#### Rho Chem Corporation, a wholly owned subsidiary of PHILIP SERVICES CORP., RCRA Land Disposal Restriction Notification Form EZ

Generator: <u>SPACEX</u>		EPA I.D. #: <u>C</u> A	AR000191536
Profile #:		Manifest #: <u>00</u>	0765220355JJK
	pplicable prohibition levels s		t 268. The wastes do not meet the treatment standards specific to 40 CFR 268.7(a), the required information applicable to e
	Treatability Group: Wastewaters contain less tha	☐ Wastewater an 1% filterable solids and le	☑ Nonwastewater ss than 1% Total Organic Carbon)
<ul> <li>□ D001 Ignitable (except for High</li> <li>□ D001 High TOC Ignitable (great</li> <li>□ D002 Corrosive managed in no</li> <li>□ D002 Corrosive managed in CW</li> <li>□ D003 Reactive Sulfides based or</li> <li>□ D003 Reactive Cyanides based or</li> </ul>	s D001 is the only "D" code TOC) managed in CWA/C' fer than 10% total organic ca en-CWA/non-CWA-equival (A/CWA-equivalent/Class I in 261.23(a)(5) on 261.23(a)(5) in 261.23(a)(2),(3) and (4) managed in the organic case 261.23(a)(2),(3) and (4) managed in CWA/C' 261.23(a)(2),(3) and (4) managed in CWA/C'	e and the waste is to be comb WA-equivalent/Class I SDWA arbon) Ient/non Class I SDWA syst SDWA systems Inanaged in non-CWA/non-C maged in CWA/ CWA-equiva	A systems  Gems (Complete form UC)  CWA-equivalent/non Class I SDWA systems (Complete form
lf D004-43 boxes are checked, complete a SDWA systems):	and attach Form UC to address	underlying hazardous constitue	nts (unless these wastes are to be managed in CWA/CWA-equivalent
□         D007 Chromium         ☑ D00           □         D009 High mercury inorganic (>20           □         D009 High-mercury organic (>26 mg/kg)           □         D009 Low-mercury (<260 mg/kg)	88 Lead □ Do 260 mg/kg total), including 60 mg/kg total), not including 60 mg/kg total), not including g total) □ Do 11 Silver □ D023 o-Cresol □ D024 m-Cresol □ D025 p-Cresol □ D026 Cresols (Total) □ D027 p-Dichlorobenz □ D028 1,2-Dichloroetl □ D029 1,1-Dichloroetl □ D030 2,4-Dinitrotolu □ D031 Heptachlor □ D032 Hexachlorobenz	D033   Hexistence   D034   Hexistence   D035   Metical   D036   Nitrate   D037   Pentance   D039   Tetrence   D039   Tetrence   D041   2,4,5   D043   Viny	achlorobutadiene achloroethane hyl ethyl ketone obenzene tachlorophenol dine tachloroethylene dene 5-Trichlorophenol o-Trichlorophenol
Note: If any bolded entries are checke (CWA) treatment process or unl		d to address underlying hazard	dous constituents, unless the material is treated in a Clean Water
In addition, the following wastes a	**************************************		
		e F001-F005 section on the bac	ck of this form. Check the hazardous waste number(s) that applies, an
identify the constituents likely to be prese.		not addressed above !le	ntifu tham have
If this shipment carries additions  EPA Waste Code Subcate	egory (if applicable)	EPA Waste Code	Subcategory (if applicable)

This is a two sided form

Form EZ Revised 04/18/2007

F001-F005 Spent Solvents Check the box(es) that applies; identify the	e individual constituents likely to be	present.
Hazardous waste description	Regulated hazardous constituent	<u>s</u>
☐ F001 Spent halogenated solvents used in degreasing	Carbon tetrachloride Tetrachloroethylene Trichloroethylene Trichloromonofluoromethane	Methylene chloride 1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-triffuoroethane
☐ F002 Spent halogenated solvents	Chlorobenzene Methylene chloride 1,1,1-Trichloroethane Trichloroethylene Trichloromonofluoromethane	o-Dichlorobenzene Tetrachloroethylene 1,1,2-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
☐ F003 Spent non-halogenated solvents	Acetone Cyclohexanone* Ethyl benzene Methanol* Xylenes (total)	n-Butyl alcohol Ethyl acetate Ethyl ether Methyl isobutyl ketone
☐ F004 Spent non-halogenated solvents	m-Cresol p-Cresol Nitrobenzene	o-Cresol Cresol-mixed isomers (cresylic acid)
☐ F005 Spent non-halogenated solvents	Benzene 2-Ethoxyethanol Methyl ethyl ketone Pyridine	Carbon disulfide* Isobutyl alcohol 2-Nitropropane Toluene
*The treatment standards for carbon disulfide, containing only one, two, or all three of these constituents are present in the waste.	cyclohexanone, and methanol nonwast constituents. The treatment standards j	ewaters are based on the TCLP and apply to spent solvent nonwastewa for these three constituents do not apply when any of the other F001-F
Hazardous Debris		
☐ This shipment contains hazardous debris the blasting).	hat will be treated to comply with the a	ternative treatment standards of 268.45 (e.g., macroencapsulation or at
(The definitions of "debris" and "hazarda subject to treatment." To determine these,	ous debris" are in 40 CFR 268.2. I look up the waste code in 268.40	Per 268.45, hazardous debris must be treated for each "contant and list the regulated hazardous constituents for each code.)

The contaminants subject to treatment for this debris are identified below:

EPA Waste Code	Subcategory	Contaminants subject to treatment	
\$18.000 minutes and \$1,000,000,000,000,000,000,000,000,000,0			
			444A8444

#### Rho Chem Corporation, a wholly owned subsidiary of PHILIP SERVICES CORP., RCRA Land Disposal Restriction Notification Form UC

	Generator: SPACEX	U.S. EPA I.D. #	t:CAR000191536	
	Profile #:	Manifest #:	0007 <u>65335JJK</u>	
	In accordance with 40 CFR 268.7(a), the under means any constituent listed in 268.48, Table hazardous waste, at a concentration above the and subcategory applicable to this waste.	UTS-Universal Treatment Standard which of	can reasonably be expected to be present at	the point of generatic
	In order to address underlying hazardous	constituents in characteristic wastes, ple	case check the appropriate box:	
Q	I have reviewed the UTS list of 268 hazardous constituents reasonably		· · · · · · · · · · · · · · · · · · ·	ıg
	I have reviewed the UTS list of 268 constituents are present in this was	• • •		
	W-W-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M			
The	e determination of underlying hazardous co	nstituents was based on:		
	Generator's knowledge of the waste			
	Analysis			
	I certify that I personally have examined a to support this certification. I certify that a this notification is true and correct to the b	s an authorized representative of the gene	alysis and testing, or through knowledge erator named above, all the information	e of the waste submitted in
Pri:	Mark Dag nted Name	Signature	<u>07/24/09</u> Date	

#### List of Underlying Hazardous Constituents 40 CFR 268.48

Circle or otherwise identify the underlying hazardous constituents present in the waste: Organic Constituent Organic Constituent Organic Constituent Organic Constituent 2-Chlorophenol A2213 Ethyl acetate Oxamyl Acenaphthylene 3-Chloropropylene Ethyl benzene Parathion Acenaphthene Chrysene Ethyl cyanide/Propanenitrile Total PCBs(sum of all isomers, or all Aroclors) Acetone o-Cresol Ethyl ether Pebulate bis(2-Ethylhexyl)phthalate Acetonitrile m-Cresol Pentachlorobenzene Acetophenone p-Cresol Ethyl methacrylate PeCDDs(All Pentachlorodibenzo-p-dioxi m-Cumenyl methylcarbamate 2-Acetylaminofluorene Ethylene oxide PeCDFs(All Pentachlorodibenzofurans) Acrolein Cyclohexanone Famphur Pentachloroethane Acrylamide o.p'-DDD Fluoranthene Pentachloronitrobenzene *p.p'*-DDD Acrylonitrile Fluorene Pentachlorophenol Aldicarb sulfone o,p'-DDE Formetanate hydrochloride Phenacetin p.p'-DDE Aldrin Formparanate Phenanthrene 4-Aminobiphenyl o,p'-DDT Heptachlor Phenol p,p'-DDT Aniline Heptachlor epoxide o-Phenylenediamine Anthracene Dibenz(a,h)anthracene Hexachlorobenzene Phorate Aramite Dibenz(a,e)pyrene Hexachlorobutadiene Phthalic acid alpha-BHC 1,2-Dibromo-3-chloropropane Hexachlorocyclopentadiene Phthalic anhydride beta-BHC 1,2-Dibromoethane/Ethylene dibromide HxCDDs(All Hexachlorodibenzo-p-dioxins)Physostigmine delta-BHC Dibromomethane HxCDFs(All Hexachlorodibenzofurans) Physostigmine salicylate gamma-BHC m-Dichlorobenzene Hexachloroethane Promecarb Barban o-Dichlorobenzene Hexachloropropylene Pronamide Bendiocarb p-Dichlorobenzene Indeno(1,2,3-c,d)pyrene Propham Bendiocarb phenol . Dichlorodifluoromethane Iodomethane Propoxur Benomyl 1,1-Dichloroethane Isobutyl alcohol Prosulfocarb 1,2-Dichloroethane Benzene Isodrin Pyrene 1,1-Dichloroethylene Benz(a)anthracene Isolan Pyridine trans-1,2-Dichloroethylene Benzal chloride Isosafrole Safrole 2,4-Dichlorophenol Silvex/2,4,5-TP Benzo(b)fluoranthene Kepone 2,6-Dichlorophenol Methacrylonitrile Benzo(k)fluoranthene 1,2,4,5-Tetrachlorobenzene 2,4-Dichlorophenoxyacetic acid/2,4-D Benzo(g,h,i)perylene Methanol TCDDs(All Tetrachlorodibenzo-p-dioxin: TCDFs(All Tetrachlorodibenzofurans) Benzo(a)pyrene 1,2-Dichloropropane Methapyrilene cis-1,3-Dichloropropylene Bromodichloromethane Methiocarb 1,1,1,2-Tetrachloroethane Bromomethane/Methyl bromide trans-1,3-Dichloropropylene Methomyl 1.1.2.2-Tetrachloroethane 4-Bromophenyl phenyl ether Dieldrin Methoxychlor Tetrachloroethylene n-Butyl alcohol Diethylene glycol, dicarbamate 3-Methylcholanthrene 2,3,4,6-Tetrachlorophenol Butylate Diethyl phthalate 4,4-Methylene-bis(2-chloroaniline) Thiodicarb p-Dimethylaminoazobenzene Butyl benzyl phthalate Methylene chloride Thiophanate-methyl 2-sec-Butyl-4,6-dinitrophenol/Dinoseb 2,4-Dimethyl phenol Methyl ethyl ketone Tirpate Dimethyl phthalate Methyl isobutyl ketone Carbaryl Toluene Carbenzadim Dimetilan Methyl methacrylate Toxaphene Carbofuran Di-n-butyl phthalate Methyl methansulfonate Triallate Carbofuran phenol 1.4-Dinitrobenzene Methyl parathion Tribromomethane/Bromoform 4,6-Dinitro-o-cresol Metolcarb Carbon disulfide 2.4.6-Tribromophenol Carbon tetrachloride 2,4-Dinitrophenol Mexacarbate 1,2,4-Trichlorobenzene 2,4-Dinitrotoluene Molinate Carbosulfan 1,1,1-Trichloroethane Chlordane (alpha and gamma isomers) 2,6-Dinitrotoluene Naphthalene 1,1,2-Trichloroethane Di-n-octyl phthalate 2-Naphthylamine p-Chloroaniline Trichloroethylene Di-n-propylnitrosamine Chlorobenzene o-Nitroaniline Trichloromonofluoromethane Chlorobenzilate 1,4-Dioxane p-Nitroaniline 2,4,5-Trichlorophenol 2-Chloro-1,3-butadiene Diphenylamine Nitrobenzene 2,4,6-Trichlorophenol Chlorodibromomethane Diphenylnitrosamine 5-Nitro-o-toluidine 2,4,5-Trichlorophenoxyacetic acid/2,4,5-1,2,3-Trichloropropane 1,2-Diphenylhydrazine Chloroethane o-Nitrophenol Disulfoton 1,1,2-Trichloro-1,2,2-trifluoroethane bis(2-Chloroethoxy)methane p-Nitrophenol Dithiocarbamates (total) N-Nitrosodiethylamine bis(2-Chloroethyl)ether Triethylamine Chloroform Endosulfan I N-Nitrosodimethylamine tris-(2,3-Dibromopropyl)phosphate bis(2-Chloroisopropyl)ether Endosulfan II N-Nitroso-di-n-butylamine Vernolate p-Chloro-m-cresol Endosulfan sulfate N-Nitrosomethylethylamine Vinyl chloride 2-Chloroethyl vinyl ether Endrin N-Nitrosomorpholine Xylenes-mixed isomers Endrin aldehyde Chloromethane/Methyl chloride N-Nitrosopiperidine (sum of o-,m-, and p-xylene

concentrations)
2-Chloronaphthalene EPTC

2-Chloronaphthalene Inogranic Constituent

Antimony Arsenic Barium Beryllium EPTC Inorganic Constituent

Cadmium Chromium (Total) Cyanides (Total) Cyanides (Amenable) N-Nitrosopyrrolidine Inorganic Constituent

Lead
Mercury-Nonwastewater from Retort

Mercury-Nonwastew Mercury-All Others Nickel Silver

Sulfides Thallium

Inorganic Constituent

#### LAND DISPOSAL RESTRICTION NOTIFICATION FORM

Manifest Num.000765	5359 JJK Ger	erator Name :	SPA	CEX	EPA# <u>CAR0001915</u>	36
RCRA HAZARDOUS \	WASTE INFORM	ATION				
U.S.F. PROFILE NUMBER! MANIFEST LINE ITEM NUMBER	List all D, F, K, U & P Codes	Subcategory (IF ANY)	WASTEN NONWAST WW	VATER*/ TEWATER NWW	California List ** Per CCR Title 22, Section 66268.32	Hazardous Debris Subject To CCR Title 22, Sec 66268.45
1) 35072847				х	□For:	
					☐ For:	
					☐ For:	
					☐ For:	
ADDITIONAL INFORMATION FOR D001, D002, D012-43, F001-5 & F039 WASTE STREAMS: (check one)						
There are no und	derlying hazard	ous constituents (l	JHCs) prese	nt		
66268.48	_	·		•	t meet treatment standards present in the waste stream)	per CCR Title 22, Section
DETERMINATION						
					ed and the reaction products	
Results from ana	lytical testing		Ana	lytical result	s attached 🗆 YES	0
TERM DEFINITIO * WASTEWATER (TOCs) AND 1% BY W	= per CCR Title			IAT CONTAII	NS LESS THAN 1% BY WEIGH	IT TOTAL TOXIC ORGANICS
		NG HAZARDOUS W		PROHIBITE	D FROM LAND DISPOSAL: pe	er CCR Title 22, Section 66268.32
<ul><li>Liquid hazardous</li><li>Liquid hazardous</li></ul>	waste containing	PCB's at concentrati	ion of greater			centrations greater than or equal to
	waste, including	ree liquids associate	d with any so	lids/sludge, c	ontaining metals at concentration	ons greater than or equal to the
following: ARSENIC	500 mg/L		MERCURY	,	20 mg/L	
CADMIUM	100 mg/L		NICKEL	·	134 mg/L	
CHROMIUM	500 mg/L		SELENIUN	Λ	100 mg/L	
LEAD	500 mg/L		THALLIUN		130 mg/L	
<ul> <li>Liquid hazardous</li> <li>Non-liquid RCRA</li> </ul>	waste, that conta nazardous waste	ins HOC's in total co containing HOC's in	ncentration gr total concent	eater than or ration greate	equal to 1,000 mg/L r than or equal to 1,000 mg/L	
of the waste to suppo	rt this certificati	on. I believe that th	ie informatio	n i have sub		and testing or through knowledge complete. I am aware that there it
COMPANY NAME			AUT	HORIZED S	SIGNATURE	DATE



3150 East Pico Boulevard, Los Angeles, CA 90023 Phone (800) 499-7145 Fax (213) 780-0078

#### LAND DISPOSAL RESTRICTION NOTIFICATION

Manifest Line # Approval #	Manifest	Manifest
ine# Approval#	Line# Approval#	Line# Approval#
1		
	D C CONCLUSION AND SO	
	1 1	
	<del></del>	

This notification form shall be completed by the generator and shall accompany each shipment of restricted waste subject to the Land Disposal Restrictions (40 CFR 268 Subpart C).

- ➤ Complete all information in Section I.
- > Check mark all appropriate Regulated Constituents in Section II, additional applicable Sections and/or complete Section III.
- > Sign and date Section IV.

到1000年	利亚洲							
GENERATOR'S NAM	ie Spaci	E. Exdor	ation TEC	h.				
EPA I.D. NUMBER	'CAI	<b>^</b>	536					
MANIFEST NUMBER	001	078581	17R					
TREATABILITY GRO	UP	(Check one)	☐ Wastewater	☐ Non-Wastew	ater			
HAZARDOUS DEBR	ıs	(	☐ Yes	☐ No				
EPA HAZARDOUS W	ASTE CODE(S) -							
DO01								
F005								
There are underly	erlying hazardous cor ring hazardous consti Treatment Standards	tuents of concern whi	or ich do not meet the trea	tment standards of	40 CFR 268.48	, Table		
☐ Knowledge of the	I have used the following to make the above determination:  Knowledge of the waste producing process, raw materials used and reaction products, or							
Results of analysis for the constituents in Table UTS.								
Waste analysis data	aπached?	☐ Yes	□ No					
aqueous and solid waste								

#### **UNIVERSAL TREATMENT STANDARDS**

#### SECTIONII

The Underlying Hazardous Constituents must be identified for waste atreams which carry the EPA Waste Codes F001-F005, F039, D001 (only D001 not treated by RORGS; CMBST or POLYM), D005-D043 (only D005-D043 if treated in Non-CWA, Non-CWA equivalent or Non-SDWA facilities).

The wastes identified on the aforementioned manifest document number and bearing the EPA Hazardous Waste Number(s) identified in Section I are subject to the Land Disposal Restrictions of 40 CFR 268 Subpart C. The wastes do not meet the applicable treatment standards specified in 40 CFR 268 Subpart D or exceeds the applicable prohibition levels specified in 40 CFR 268.32 (California list wastes) or RCRA Section 3004(d). In compliance with the requirements of 40 CFR 268.7 and 268.9 we are indicating below the applicable constituents of concern.



3150 East Pigo Boulevard, Los Angeles, CA 90023 Phone (800) 499-7145 Fax (213) 780-0078

#### ADDITIONAL RESTRICTED WASTE IDENTIFICATION/ TREATMENT STANDARDS AND CERTIFICATION FORM

Complete Section III if the restricted wastes (i.e., EPA Hazardous Waste Code) as listed in Section I do not meet the applicable treatment standards in 40 CFR 268.40 (Treatment Standards for Hazardous Wastes) and have not been identified as required in Section II.								
EPA Hazardous Waste Code	Subcategory (if applicable)	Appropriate Treatment Stendard	Alternative Treatment Technology (Debris)					
			<u> </u>					
			·					
			***************************************					

knowledge and information	
Company Name:	Space Exploration Tech.
Authorized Signature:	
Printed Name:	
Date:	10/7/09

ستسبيب بيوجه	
	40 CFR 268.48 TABLE UTS - UNIVERSAL TREATMENT STANDARDS (Continued)
حانه	means Chemical Abstract Services. When the waste code and/or regulated constituents are described as a combination of a chemical with its and/or esters, the CAS number is given for the parent compound only.
<sup>2</sup> Cond	centration standards for wastewaters are expressed in mg/l are based on analysis of composite samples.
<sup>3</sup> Exce upon based treatm sample	opt for Cyanides (Total and Amenable) the non-wastewater treatment standards expressed as a concentration were established, in part, based incineration in units operated in accordance with the technical requirements of 40 CFR part 264, subpart 0 or 40 CFR part 265, subpart 0, or in units operated in accordance with applicable technical requirements. A facility may comply with these ments standards according to provisions in 40 CFR 268.40(d). All concentration standards for nonwastewaters are based on analysis of grabes.
10 gra	Cyanides (Total) and Cyanides (Amenable) for non-wastewaters are to be analyzed using Method 9010 or 9012, tound in "Test Methods for ating Solld Waste, Physical/Chemical Methods", EPA Publication SW-845, as incorporated by reference in 40 CFR 260.11, with a sample size of ms and a distillation time of one hour and 15 minutes.
<sup>5</sup> Thes	s constituents are not "underlying hazardous constituents" in characteristic wastes, according to the definition at §268.2 (I).
*Betw	een August 26, 1996, and August 26, 1997, these constituents are not "underlying hazardous constituents" as defined at 6268.2 (i) of this Pert
Note:	NA means not applicable.
Plea	se complete as applicable:
Waste on the	es with organic constituents having treatment standards expressed as concentration levels based in whole or in part
	I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the non-wastewater organic constituents have been treated by combustion units as specified in 268.42. Table 1. I have been unable to detect the non-wastewater organic constituents, despite having used best good-faith efforts to analyze for such constituents. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
Waste Proce	s with treatment standards expressed as concentrations in the waste extract Toxicity Characteristic Leaching dure (TCLP).
	I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
	Alternative Treatment Standard Lab Pack
	Manifest Line No.
	I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes that have not been excluded under Appendix IV to 40 CFR Part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.
	I hereby certify under penalty of law that there are no PCBs (polychlorinated biphenyls) contained in the oil waste being manifested to Pacific Resource Recovery. I also understand that a sample of the load will be retained and that the generator will be responsible for the clean-up of contaminated equipment, tanks, etc. if PCBs are present in the waste.
Benzel For Che ONLY:	ne NESHAP Control Requirement: mical Manufacturers, Patroleum Refineries, Coke By-Product Facilities and RCRA TSDFs handling wastes subject to 40 CFR 61 subpart FF
	This waste is a "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR 61 Subpart FF.
	Manifest Line No.
Californ	nia List Wastes:
	Liquid hazardous wastes having a pH less than or equal to 2.0
	Liquid hazardous wastes containing PCBs at a concentration greater than or equal to 50 ppm
	Liquid hazardous wastes that contain HOCs in total concentration greater than or equal to 1000 mg/l
<u> </u>	Nonliquid hazardous wastes containing HOCs in total concentration greater than or equal to 1000 make
	rree (amenable to chlorination) cyanides greater than or equal to 1000 moli
ū	One or more of the following metals greater than or equal to the following:  Arsenic and/or compounds: 500 mg/l  Cadmium and/or compounds: 500 mg/l  Chromium and/or compounds: 500 mg/l  Lead and/or compounds: 500 mg/l  Marcury and/or compounds: 20 mg/l  Nickel and/or compounds: 134 mg/l
	Selenium and/or compounds: 100 mg/i Thallium and/or compounds: 130 mg/i

	40 C	·		E UTS – UNIVERS	ALTRI			IDARDS (Continue	<u>d)                                    </u>	<del></del>	<del></del>
Gogulaide Complicant - Company Books	CA\$1 NO.	Wasternier tisederd coacealreiden in mg/E	tion-wastewater etanderd concen- tration in suggley universeated as "mg/l TCLP"	Regulated treatilerat - committe distan	CAS! HO.	Wastemaler standard sectoristics in mg/ <sup>2</sup>	Non-mestemote: stendard concen- tration in medical unione notati es "mg/l TCLP"	Regulated constituent — consists name	сиз на	Waspingler staradard ton carbation in mag/2	Min-magirers alterdard control braites in mg/s enious moios a "mg/l TCLP"
☐ Acenzphthylene	208-96-8	0.059	3.4	☐m-Dichkorobenzens	541-73-1	0.036	6	□p-Nitroaniline	100-01-6	0.028	28
☐ Acenaphtheile	83-32-9	0.059	3.4	Qo-Dichlorobenzene	95-50-1	0.088	6	□o-Nitroanilina	88-74-4	0.27	14
□Acetone	67-64-1	0.28	160	Op-Dichlorobenzene	106-46-7	0.090	6	□Nitrobenzene	98-95-3	0.068	14
☐ Acetonitrile	75-05-8	5,6	1.8	ODichlerodiffuergmethane	75-71-8	0.23	7.2	□5-Nitro-o-toluidine	99-55-8	0.32	28
☐ Acetophenone	95-85-2	0.010	9.7	☐1.1-Dichlorgethane	75-34-3	0.059	6	□o-Nitrophenol	88-75-5	0.28	13
2-Acetylaminofluorena	53-96-3	0.059	140	☐1.2-Dichlorgethans	107-06-2	0.21	6	Op-Nitrophanol	100-02-7	0.12	29
OAcrolein	107-02-8	0.29	NA.	O1,1-Dichloroethylane	75-34-4	0.025	5	ON-Nitrosodiejnylamine	55-18-5	0.40	28
DAcıylamidə	79-06-1	19	23	Otrans-1,2-Dichloroethylene	156-60-5	0.054	30	☐ N-Nitrosodimethylamine	62-75-9	0.40	2.3
OAcrylositrile	107-13-1	0.24	84	Q2.4-Dichlorophesol	120-83-2	0.044	14	ON-Nitroso-di-n-buttyamine	924-18-3	0.40	17
☐Aldrin	309-00-2	0.021	0.066	Q2,6-Dichlorophesol	87-65-0	0.044	14	QN-Nitrosomethylethylamine	10595-95-6		
Q4-Aminobiphanyi	92-67-1	0.13	NA.	1,2-Dichloropropane	78-87-5	0.85	18	ON-Nitrosemorpholina	59-89-2	0.40	2.3
OAnillns	62-53-3	0.51	14	Ocis-1,3-Dichloropropylene	10061-01-5	0.035	18	□N-Nitrosopleeridine		0.40	2.3
OAnthracene	120-12-7	0.059	3.4	Otrans-1,3-Dichloropropylene	10061-01-8	0.036	18		100-75-4	0.013	35
			NA.					□N-Nitrosapyrrelidine	930-55-2	0.D13	35
QAremite	140-57-8	0.36		C) Dieldrie	60-57-1	0.017	0.13	Parathion	56-38-2	0.014	4.6
□alpha-8HC	319-84-6	0.00014	0.058	☐ Diethyl phthalate	84-66-2	0.20	28	☐ Pentachlorobenzene	608-93-5	0.055	10
Obeta-BHC	319-85-7	0,00014	0.056	p-Dimethylaminoszobenzese	80-11-7	0.13	NA NA	Pentachloredibenzo-furans	NA.	0.000035	0.001
Odelta-BHC	319-86-8	0.023	0.066	□2,4-Dimethy/ phenol	105-57-9	0,036	14	Pentachiorodibenzo-p-dioxins	NA NA	0.000063	0.001
☐gamma-BHC	58-89-9	0.0017	0.066	☐ Dimethyl phthalate	131-11-3	0.047	28	Pentachioroethane	78-01-7	0.055	ð
☐Benz(a)anthracene	58-55-3	0.059	3.4	ODi-n-butyl phthelate	84-74-2	0.057	28	O Pentachioronitrobenzena	82-68-8	0.055	4.8
☐ Benzal chloride	98-87-3	0.055	6.0	☐1,4-Dinitrobenzene	100-25-4	0.32	2.3	☐ Pentachiorophenol	87-86-5	0.089	7.4
☐ Benzene	71-43-2	0,14	10	Q4.6-Dinitre-o-creso)	534-52-1	0.28	160	Q Phenacetin	82-44-2	0.081	16
OBenzo(a) pyrene	50-32-8	0.061	3.4	□2.4-Dinitrophenol	51-28-5	0.12	160	C Phenanthrens	85-01-8	0.059	5.6
□Benzo(b)fluoranthens	205 <del>-99</del> -2	0.11	6.8	☐2,4-Dinitrolohiane	121-14-2	0.32	140	☐Phenol	108-95-2	0.039	6.2
☐ Benzo(g,h.i)perylena	191-24-2	0.0055	1.5	□2,6-Dinitratoluene	606-20-2	0.55	28	Phorate	296-02-2	0.021	4,6
☐ Benzo(k) fluoranthene	207-08-9	0.11	6.8	ODI-n-octyl phthalate	117-84-0	0.017	28	□ Phthalic acid	100-21-0	0.055	28
Dbis-(2-Chioroethoxy) methans	111-91-1	0.036	7.2	Di-n-propymitrosamine	621-64-7	0.40	14	□ Phthalic anhydride	85-44-9	0.055	28
□bis-(2-Chiproethyl) ather	111-44-4	0.033	6.0	☐ Diphenylamine	122-39-4	0.92	13	☐Prosamide	23950-58-5	0.093	1,5
□bis-(Chloroisopropyi) ether	106-50-1	0.055	7.2	Q1,2-Diphenylhydrazine	122-66-7	0.087	NA	Proganenitrile (Ethyl cyanide)	107-12-0	0.24	380
Otils-(Ethythexyl) phthalate	117-81-7	0.28	28	☐ Diphenyinitrosamine	86-30-6	0.92	13	☐ Pyrene	129-00-0	0.067	8.2
☐ Bromodichioromethane	75-27-4	0.35	15	Q1,4-Dioxene	123-91-1	NA	170	☐ Pyridine	110-86-1	0.014	16
☐Bromomethane (methyl	-			Clp-Dimethylaminoazobenzene	80-11-7	0.13	NA	☐ Safrole	94-59-7	0.081	22
bromide)	74-83-9	0.11	15	Q Disultation	298-04-4	0.017	6.2	☐Silvex (2,4,5-YP)	93-72-1	0.72	7.9
□4-Bromophenyl phenyl ether	101-55-3	0.055	15	Ci Endosulfan (	989-98-8	0.023	0.066	□2.4.5-T	93-76-5	0.72	7.9
□b-Butyl alcohol	71-36-3	5.6	2.6	□ Endosulfan II	33213-6-5	0.029	0.13	1,2,4,5-Tetrachiorobenzene	95-94-3	0.055	14
☐ Butyi benzyl phihaiate	85-68-7	0.017	28	ClEndosulfan sulfate	1-31-07-8	0.029	0.13	Tetrachlorodibenzo-furans	HA:	0.000063	0.001
Q2-sac-Butyl-4,6-dinkrophenol				□ Endrin	72-20-8	0.0028	0.13	☐ Tetrachiorodibenzo-o-dioxins	HA	0.000063	0.001
dinoseb	88-85-7	0.066	2.5	C) Endrin aldehyde	7421-93-4	0.025	0.13	Q1,1,1,2-Tetrachloroethane	630-20-6	0.057	6.0
OCarbon disultide	75-15-0	3.8	4.8 TCLP	Ci Ethyl acetate	141-78-6	0,34	33	1.1.2.2-Tetrachloroethane	79-34-6	0.057	6,0
Carbon tetrachloride	56-23-5	0.057	6.0	C) Ethyl benzene	100-41-4	0.057	10	☐ Tetrachioroethylens	127-18-4	0.055	6.0
Chiordane (alpha & gamma isomers)	57-74-8	0.0033	0.26	☐ Ethyl ether	50-29-7	0.12	160	12,3,4,5-Tetrachlorophenol	58-90-2	0.030	7.4
Og-Chioroaniline	108-47-8	0.46	16	☐Ethyl methacrylate	97-63-2	0.14	160	☐ Toluens	108-68-3	0.080	10
Chiorobenzens	108-90-7	0.057	6.0	□Ethylene oxide	75-21-8	0.12	HA	O Toxaghene	6001-35-2	0.0095	2.5
☐ Chierobenzilata	510-15-6	0.10	NA NA	☐ Famphur	52-85-7	0.017	15	O Tribromomethane (bromoform)	75-25-2	0.63	15
□ 2-Chloro-1,3-butadiene	126-99-8	0.10	0.28	☐ Fluoranthene	206-44-0	0.068	3,4	1.2.4-Trichlorobenzene	120-82-1	0.055	19
Chlorodibromomethane	124-48-1	0.057	15	O Fluorese	86-73-7	0.059	3.4	11,1,1-Trichioroethane	71-55-6	0,054	
Ochleroethane	75-00-9	0.031		Heptachior	76-44-8	0.0012	0,055	Q1,1,2-Trichioroethana	79-00-5		8.0
		<del></del>	6.0	☐ Heptachlor epoxida	1024-57-3	0.016	0.086	OTrichloroethylene		0.054	6.0
□ Chioroform □ p-Chioro-m-cresol	67-66-3	0.048	6.0	☐ Hexachlorobenzens	118-74-1	0.055	10	C) Trickloremenoffsecomethane	79-01-6	0.054	6.0
	59-50-7	0.018	14	C.Hexachlorobutadiene	87-68-3	0.055			75-89-4	0.020	30
2-Chlorosthyl vinyl ether	110-75-8	0.062	NA I	☐ Hexachiorodibenzo-furans	~		5.6	Q2,4.5-Trichtorophenol	95-95-4	0.18	7.4
Chloromethane (methyl chloride)	74-87-3	0.19	30	☐ Haxachiorodibenzo-p-dioxins	NA	0.000063	0.001	C12,4,6-Trichlorophanol	88-06-2	0.035	7.4
12-Chloronaphthalene	91-8-7	0.055	5.6	**** ** ******************************	NA.	0.000063	0.001	1,2,3-Trichlorogropana	96-18-4	0.85	30
22-Chlorophenol	95-57-8	0.033	5.7	☐ Hexachlorocyclopentadione ☐ Hexachloroethane	77-47-4 67-72-1	0.057	2.4	1,1,2-Trichloro-1,2,2- trifluoroethane	76-13-1	0.057	30
□3-Chioropropylene	107-05-1	0.036	***			0.055	30	□Vinyl chlorida	75-01-4		5.0
— 3-спюторлорунета — Спиузапа	218-01-9	0.036	30 3.4	☐ Hexachloropropylene	1888-71-7	0.035	30	OXylenes (total)	1330-20-7	0.27	30
□p-Cresol	106-44-5	0.059	5.6	□Indena (1,2,3-c,d)pyrene	193-39-5	0.0055	3.4	O Total PCBs	1336-36-3		10
Om-Cresol				□lodemethane	74-88-4	0.19	65	☐ Antimony		<u> </u>	
	104-39-4	0.77	5.6	Clisobutyl alcohol	78-83-1	5.6	170		7440-36-0	1.9	0.07 TCLF
Do-Cresol	95-48-7	0.11	5.6	□lsodrin	465-73-6	0.021	0,066	☐ Arsenic	7440-38-2	1.4	5.0 TOLE
2 Cyclohexanone	108-94-1	0.36	0.75 TCLP	Cisosatrole	120-58-1	0.081	2.5	O Barlum	7440-39-3	1.2	21 TCLP
2-4-Dichlorophanoxyacetic	04.75.7	امده	.,	□ Kapone	143-50-8	0.0011	0.13	□ Baryillum	7440-41-7	0.82	0.02 TCL
acid (2,4-D)	94-75-7	0,72	10	☐ Methacrylonitrile	126-98-7	0.24	84	Cadmium	7440-43-9	0.69	0.2 TCLF
⊇o.p'-000	53-19-0	0.023	0.087	☐ Methanol	67-58-1	5.6	0.75 TCLP	OChromium (total)	7440-47-3	2.77	0.85 TCL
⊒p.p'-000	72-54-8	0.023	0.087	☐Methapyrilene	91-80-5	0.081	1.5	☐Cyanide (total)	57-12-5	1.2	590°
⊇o.p'-DDE	3424-82-8	0.031	0.087	Methoxychior	72-43-5	0.25	0,18	□Cyanide (amenable)	57-12-5	0.86	30*
300-'Q0E	72-55-9	0.031	0.087	O3-Methylchicanthrens	58-49-5	0,0055	15	□ Fluoride	16964-48-5	<b>35</b>	NA
10,p'-00T	789-02-8	0.0039	0.087	□4,4-Methylene-bis-	15 5			Oles	7439-92-1	0.69	0.75 TCL
<b>Σρ,ρ'-ΩΟΤ</b>	50-29-3	0.0039	0.087	(2-chlorosniline)	101-14-4	0.50	30	Mercury - NWW from Retort	7439-97-6	0.15	0.20 TCL
Dibenzo(a,e)pyrene	192-65-4	0.061	NA	☐ Methylene chloride	75-09-2	0.089	30	Morcury all others	7439-97-6	0.15	0.025 TCL
Dibenzo(a,h)anthracene	53-70-3	0.055	8.2	☐Methyl ethyl ketone	78-93-3	0.28	36	□Nickel	7440-02-0	3.98	13.6 TCLF
Otris-(2,3-Dibromopropyl)				☐ Methyl Isobutyl ketone	108-10-1	0.14	33	□Selenium'	7782-49-2	0.82	5,7 TCL
ahasakata .	125-72-7	0.11	0.10	Methyl methacrylate	50-62-6	0.14	160	OSHvar	7440-22-4	0.43	0.11 TCL
phosphate	00 40 0	0.11	15				NA NA	OSulfida			NA NA
11,2-Dibromo-3-Chioropropana	96-12-8	7,31		LIMPSTON (TIATETATA PROPERTY AND THE							
11,2-Dibromo-3-Chloropropane 11,2-Dibromoethane (ethylene				Methyl methansulfonate	86-27-3	0.018			8496-25-8	14.0	
11,2-Dibromo-3-Chloropropana 11,2-Dibromoethane (ethylene dibromide)	106-93-4	0.028	15	CiMethyl Parathion	298-00-0	0.014	4.6	□1halikum	7440-28-0	1,4	0.20 TCL
11,2-Dibromo-3-Chloropropane 11,2-Dibromoethane (ethylene				**************************************							0.20 TCL 1.6 TCL 4.3 TCL

#### LAND DISPOSAL RESTRICTION NOTIFICATION FORM

Manifest Num# 0060	78583JJK Genera	ator Name: SPA0	CE <u>EXPLO</u>	RATION	EPA# CAR000191536	
RCRA HAZARDOUS	WASTE INFORM	ATION				
U.S.F. PROFILE NUMBER/ MANIFEST LINE ITEM NUMBER	List all D, F, K, U & P Codes	Subcategory (IF ANY)		WATER*/ TEWATER NWW	California List ** Per CCR Title 22, Section 66268.32	Hazardous Debris Subject To CCR Title 22, Sec 66268.45
1)P179098	D002, D007		X		□For:	
2)AP169389	D007			X	☐ For:	
					☐ For:	
					☐ For:	
ADDITIONAL INF	ORMATION F	OR D001, D002	2, D012-43	3, F001-5 8	& F039 WASTE STREAM	(S: (check one)
There are no un	derlying hazardo	ous constituents (l	JHCs) pres	ent		
☐ There <u>are</u> underly 66268.48	ying hazardous	constituents (UHC	Cs) present	which do no	t meet treatment standards	per CCR Title 22, Section
			opriate cons	stituerit(s) pi	resent in the waste stream)	
<b>DETERMINATION</b> ■ Knowledge of the			nd the raw r	materials use	ed and the reaction products	S
☐ Results from ana	alvtical testing		Ana	alvtical resul	ts attached	IO
TERM DEFINITION * WASTEWATER (TOCs) AND 1% BY W	= per CCR Title			HAT CONTAI	NS LESS THAN 1% BY WEIGI	HT TOTAL TOXIC ORGANICS
<ul> <li>Liquid hazardous</li> </ul>	waste with a pH le	NG HAZARDOUS V ess than or equal to PCB's at concentrat	2.0		14 14 14 14 14 14 14 14 14 14 14 14 14 1	er CCR Title 22, Section 66268.32
<ul> <li>Liquid hazardous</li> <li>Liquid hazardous</li> <li>1,000 mg/L</li> </ul>	waste containing waste, including	free liquids associat	ted with any	solids/sludge,	containing free cyanide at cor	centrations greater than or equal to
<ul> <li>Liquid hazardous following:</li> </ul>	waste, including f	ree liquids associate	ed with any so	olids/sludge, o	containing metals at concentrati	ons greater than or equal to the
ARSENIC	500 mg/L		MERCUR	RY	20 mg/L	
CADMIUM	100 mg/L		NICKEL		134 mg/L	
CHROMIUM	500 mg/L		SELENIU		100 mg/L	
LEAD	500 mg/L		THALLIU		130 mg/L	
					r equal to 1,000 mg/L	
	hazardous waste	containing HOC's in	total concen	tration greate	r than or equal to 1,000 mg/L	
CERTIFICATION  I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification. I believe that the information I have submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment						
SPACE EXPLO	RATION					10/07/09
COMPANY NAME		-	AU	THORIZED S	SIGNATURE	DATE



#### LAND DISPOSAL RESTRICTION NOTIFICATION FORM

Manifest Num# 000765434JJK Generator Name : SPACE EXPLORATION EPA# CAR000191536									
THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	RCRA HAZARDOUS WASTE INFORMATION								
U.S.F. PROFILE NUMBER/ MANIFEST LINE ITEM NUMBER	List all D, F, K, U & P Codes	Subcategory (IF ANY)	WASTEV NONWAST WW	VATER*/ FEWATER NWW	California List ** Per CCR Title 22, Section 66268.32	Hazardous Debris Subject To CCR Title 22, Sec 66268.45			
1)AP169389	D007			X	□For:				
. 1.		Was distance and the second			☐ For:				
					☐ For:				
1-					☐ For:				
<ul> <li>State of Security and a security of the contract of the security /li></ul>				<ul> <li>With the service of the</li></ul>	F039 WASTE STREAM	(S: (check one)			
There are no un	derlying hazard	ous constituents (l	UHCs) prese	ent					
66268.48					meet treatment standards	per CCR Title 22, Section			
DETERMINATION			opriate cons	tituent(s) pr	esent in the waste stream)				
2000	•	rating the waste at			ed and the reaction products				
☐ Results from ana	alytical testing		Ana	lytical result	s attached YES N	О			
-									
TERM DEFINITIO	NS:								
				IAT CONTAI	NS LESS THAN 1% BY WEIGH	HT TOTAL TOXIC ORGANICS			
(TOCs) AND 1% BY W	EIGHT TOTAL S	USPENDED SOLID	S (TSS).						
*CALIFORNIA LIST	= THE FOLLOW!	NG HAZARDOUS W	VASTES ARE	PROHIBITE	D FROM LAND DISPOSAL: no	er CCR Title 22, Section 66268.32			
		ess than or equal to		TROTIDITE	DINOM BAND DIOI COAL. P	er cort Title 22, dection 00200.32			
		PCB's at concentrat							
	waste, including	free liquids associat	ted with any s	olids/sludge,	containing free cyanide at cor	centrations greater than or equal to			
1,000 mg/L	waata inaludina f	roo liquida aaaasista	ad with any	lida/aludaa -	ontoining motals at assessment	and greater then are asset to the			
following:	waste, including i	ree ilquius associate	ed with any so	ilas/siuage, d	ontaining metals at concentrati	ons greater than or equal to the			
ARSENIC	500 mg/L		MERCURY	1	20 mg/L				
CADMIUM	100 mg/L		NICKEL		134 mg/L				
CHROMIUM	500 mg/L		SELENIUM		100 mg/L				
LEAD	500 mg/L	ine HOC's in total co	THALLIUN		130 mg/L equal to 1,000 mg/L				
					r than or equal to 1,000 mg/L				
CERTIFICATION				3					
I certify under penalty						and testing or through knowledge			
						complete. I am aware that there			
		g a raise certification	on, including	tne possibil	ity of a fine and imprisonme				
SPACE EXPLOI	MATION					10/16/09			
COMPANY NAME			AUT	HORIZED S	IGNATURE	DATE			



#### LAND DISPOSAL RESTRICTION NOTIFICATION FORM

Manifest Num# 0007	65448 Generator	Name: SPA	CE EX	EP	A# CAR000191536	
RCRA HAZARDOUS	NAME AND ADDRESS OF THE OWNER, WHEN PERSON AND ADDRESS OF THE OWNER, WHEN PERSON AND ADDRESS OF THE OWNER, WHEN THE OWNER, WHE	THE RESIDENCE OF THE PARTY OF T				
U.S.F. PROFILE NUMBER/ MANIFEST LINE ITEM NUMBER	List all D, F, K, U & P Codes	Subcategory (IF ANY)		VATER*/ TEWATER NWW	California List ** Per CCR Title 22, Section 66268.32	Hazardous Debris Subject To CCR Title 22, Sec 66268.45
1)AP169389	D007			X	□For:	
					☐ For:	
					☐ For:	
					☐ For:	
ADDITIONAL INF	ORMATION F	OR D001, D002	2, D012-43	, F001-5 8	F039 WASTE STREAM	IS: (check one)
There are no un	derlying hazard	ous constituents (	UHCs) prese	ent		
66268.48					t meet treatment standards	per CCR Title 22, Section
			opriate cons	tituent(s) pi	esent in the waste stream)	
DETERMINATION						
Knowledge of th	e process gene	rating the waste a	nd the raw m	naterials use	ed and the reaction products	S
☐ Results from ana	alytical testing		Ana	lytical resul	ts attached 🗆 YES 🗀 N	IO
TERM DEFINITION * WASTEWATER (TOCs) AND 1% BY W	= per CCR Title			HAT CONTAI	NS LESS THAN 1% BY WEIGI	HT TOTAL TOXIC ORGANICS
*CALIFORNIA LIST	= THE FOLLOWI	NG HAZARDOUS V	VASTES ARE	PROHIBITE	D FROM LAND DISPOSAL: po	er CCR Title 22, Section 66268.32
		ess than or equal to				
		PCB's at concentrat				Anna property and the second
<ul> <li>Liquid hazardous 1,000 mg/L</li> </ul>	waste, including	free liquids associat	ted with any s	olids/sludge,	containing free cyanide at cor	ncentrations greater than or equal to
,	waste including f	ree liquide accociate	ad with any so	lide/eludae d	containing metals at concentrati	ions greater than or equal to the
following:	waste, including i	ree liquius associate	su with any so	ilus/siduge, c	ontaining metals at concentrati	ions greater than or equal to the
ARSENIC	500 mg/L		MERCUR'	Y	20 mg/L	
CADMIUM	100 mg/L		NICKEL		134 mg/L	
CHROMIUM	500 mg/L		SELENIUI		100 mg/L	
LEAD	500 mg/L	ina IIOOla in tatal aa	THALLIUM		130 mg/L	
Non-liquid RCRA	hazardous waste	containing HOC's in	ncentration gr	ration greate	equal to 1,000 mg/L r than or equal to 1,000 mg/L	
THE RESERVE AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO	nazardous waste	Containing FIOCS II	i total concent	auon greate	i man or equal to 1,000 mg/L	
CERTIFICATION I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification. I believe that the information I have submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment						
SPACE EX		g	,	p	,	10/29/09
COMPANY NAME			AUT	HORIZED S	SIGNATURE	DATE



### Pacific Resource Recovery

3150 East Pico Boulevard, Los Angeles, CA 90023 Phone (800) 499-7145 Fax (213) 780-0078

# Phone (800) 499-7145 Fax (213) 780

#### LAND DISPOSAL RESTRICTION NOTIFICATION

Manifest Line #		Manifest Line #		Manifest	
Line#	Approval #	Line#	Approval #	Line#	Approval #
					~
				-	

This notification form shall be completed by the generator and shall accompany each shipment of restricted waste subject to the Land Disposal Restrictions (40 CFR 268 Subpart C).

- > Complete all information in Section I.
- > Check mark all appropriate Regulated Constituents in Section II, additional applicable Sections and/or complete Section III.
- > Sign and date Section IV.

Made and the second	<b>美的</b> 工作。								
GENERATOR'S NAME	Space E	Dora	JDV1						
EPA I.D. NUMBER	CARDO	81915	36						
MANIFEST NUMBER	MANIFEST NUMBER 0007105462 186								
TREATABILITY GROUP	(Chec	(Check one)							
HAZARDOUS DEBRIS			Yes	□ No	- War this was the same of the				
EPA HAZARDOUS WASTE	CODE(S) -								
DO01									
F005									
				+ +					
There are no underlying There are underlying ha UTS – Universal Treatm	zardous constituents o	f concern which		ment standards of 4	10 CFR 268.48, Table				
I have used the following to make the above determination:  Knowledge of the waste producing process, raw materials used and reaction products, or  Results of analysis for the constituents in Table UTS.									
Waste analysis data attac	ched? 🔲 Ye	98	☐ No						
NON-RCRA WASTE	LIQUID SOLID								
Effective 1/31/96 – Pursuant to Section 25179.6 of		de. NON-RCRA	(Check all that apply)	11a 11	1b 11c 11d				
aqueous and solid waste contail	ning organics has been re	pealed from	Other (28a – 28i)						

#### UNIVERSAL TREATMENT STANDARDS

53.07		257		26	1.02	遊	77
2	-7	Esia	100	10	N	54	12
5		Later land	ы	1		<b>E</b> .	ď.

The Underlying Hazardous Constituents must be identified for waste streams which carry the EPA Waste Codes F001—F005, F039, D001 (only D001 not treated by RORGS; CMBST or POLYM), D005—D043 (only D005—D043 if treated in Non-CWA, Non-CWA equivalent or Non-SDWA facilities).

The wastes identified on the aforementioned manifest document number and bearing the EPA Hazardous Waste Number(s) identified in Section I are subject to the Land Disposal Restrictions of 40 CFR 268 Subpart C. The wastes do not meet the applicable treatment standards specified in 40 CFR 268 Subpart D or exceeds the applicable prohibition levels specified in 40 CFR 268.32 (California list wastes) or RCRA Section 3004(d). In compliance with the requirements of 40 CFR 268.7 and 268.9 we are indicating below the applicable constituents of concern.



# Pacific Resource Recovery

# 3150 East Pico Boulevard, Los Angeles, CA 90023-Phone (800) 499-7145 Fax (213) 780-0078 ADDITIONAL RESTRICTED WASTE IDENTIFICATION/ TREATMENT STANDARDS AND CERTIFICATION FORM

the applicable trea	Complete Section III if the restricted wastes (i.e., EPA Hazardous Waste Code) as listed in Section I do not meet the applicable treatment standards in 40 CFR 268.40 (Treatment Standards for Hazardous Wastes) and have not been identified as required in Section II.							
EPA Hazardous Waste Code	Subcatagory (if applicable)	Appropriate Treatment Standard	Alternative Treatment Technology (Debris)					
			<u> </u>					
	٠.							

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.	
Company Name: Space Exploration	
Authorized Signature:	
Printed Name:	
Date: 11509	and the same of the same

	40 CFR 268.48 TABLE UTS - UNIVERSAL TREATMENT STANDARDS (Continued)
	means Chemical Abstract Services. When the waste code and/or regulated constituents are described as a combination of a chemical with its and/or esters, the CAS number is given for the parent compound only.
	entration standards for wastewaters are expressed in mg/l are based on analysis of composite samples.
upon in based (	of for Cyanides (Total and Amenable) the non-wastewater treatment standards expressed as a concentration were established, in part, based achievation in units operated in accordance with the technical requirements of 40 CFR part 264, subpart 0 or 40 CFR part 265, subpart 0, or upon combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may comply with these ants standards according to provisions in 40 CFR 268.40(d). All concentration standards for nonwastewaters are based on analysis of grab is.
Evaluat	Syanides (Total) and Cyanides (Amenable) for non-wastewaters are to be analyzed using Method 9010 or 9012, found in "Test Methods for ting Solid Waste, Physical/Chemical Methods", EPA Publication SW-846, as incorporated by reference in 40 CFR 260.11, with a sample size of ns and a distillation time of one hour and 15 minutes.
	constituents are not "underlying hazardous constituents" in characteristic wastes, according to the definition at §268.2 (i).
	en August 26, 1996, and August 26, 1997, these constituents are not "underlying hazardous constituents" as defined at §268.2 (i) of this Part.  IA means not applicable.
Pleas	e complete as applicable:
Waste on the	s with organic constituents having treatment standards expressed as concentration levels based in whole or in part analytical detection limit alternative specified in §268.40(d).
0	I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the non-wastewater organic constituents have been treated by combustion units as specified in 268.42. Table 1.1 have been unable to detect the non-wastewater organic constituents, despite having used best good-faith efforts to analyze for such constituents. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
Waste: Proced	s with treatment standards expressed as concentrations in the waste extract Toxicity Characteristic Leaching lure (TCLP).
۵	I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
	Alternative Treatment Standard Lab Pack
	Manifest Line No.
	I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes that have not been excluded under Appendix IV to 40 CFR Part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.
	I hereby certify under penalty of law that there are no PCBs (polychlorinated biphenyls) contained in the oil waste being manifested to Pacific Resource Recovery. I also understand that a sample of the load will be retained and that the generator will be responsible for the clean-up of contaminated equipment, tanks, etc. If PCBs are present in the waste.
Benzer For Cher ONLY:	ne NESHAP Control Requirement: mical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRA TSDFs handling wastes subject to 40 CFR 61 subpart FF
0	This waste is a "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR 61 Subpart FF.
	Manifest Line No.
Californ	nia List Wastes:
ā	Liquid hazardous wastes having a pH less than or equal to 2.0
u	Liquid hazardous wastes containing PCBs at a concentration greater than or equal to 50 ppm
ä	Liquid hazardous wastes that contain HCCs in total concentration greater than or equal to 1000 mg/l Nonliquid hazardous wastes containing HCCs in total concentration greater than or equal to 1000 mg/kg
ā	Free (amenable to chlorination) cyanides greater than or equal to 1000 mg/l
	One or more of the following metals greater than or equal to the following:
	Arsenic and/or compounds: 500 mg/l Cadmium and/or compounds: 100 mg/l
	Chromium and/or compounds: 500 mg/l
	Lead and/or compounds: 500 mg/l Mercury and/or compounds: 20 mg/l
	Nickel and/or compounds: 134 mg/l
	Selenium and/or compounds: 100 mg/l Thallium and/or compounds: 130 mg/l

Page 3

PRR Form LDSH34 Ray 3-4-97

	-	Wastewater	Man-meninemine	E UTS – UNIVERS		Mesiswett:	Nea wastewater		•	Mrstentitt	His madeus
Regulates compleme!	CAS <sup>1</sup> NO.	Mandard	stantani cancen- tration is maging <sup>2</sup> unione motori as "magin TCLP"	Regulated complianal — coenses seme	CAL <sup>1</sup> HO.	elenderd concentration in mg/	Non-manieumine standard connec- tration in madigi- saleus notad as "mg/i TCLF"	Regulated constituent — commen name	CAS <sup>1</sup> NO.	siaradard tot centralism in mag/s	steadard coast tration in major unions union a "major TCU"
□ Acenaphthylene	208-96-8	0.059	3.4	□m-Dichiorobenzene	541-73-1	0.036	8	Op-Nitroanilke	100-01-6	0.028	28
☐ Acenaphihene	83-32-9	0.059	3.4	Co-Dichlorobenzena	95-50-1	0.088	6	Co-Nitroanilina	88-74-4	0.27	14
□ Acetone	87-84-1	0.25	160	□p-Dichtorobenzena	105-46-7	0.090	6	□Nitrobenzene	98-95-3	0.088	14
Acetonitrile	75-05-8	5.6	1.5	Dichtorodiffuoromethane	75-71-8	0.23	7.2	C15-Nitro-o-toluldine	99-55-8	0.32	28
Acetophenone	96-86-2	0.010	9.7	1.1-Dichforoethane	75-34-3	0.059	6	□o-Nitrophenol	88-75-5	0.28	13
C) Z-Acetylaminofluorene	53-96-3	0.059	140	1.2-Dichioroethane	107-06-2	0.21	6	Op-Nitrophenol	100-02-7	0.12	29
☐ Acrolein	107-02-8	0.29	NA	1.1-Dichloroethviene	75-34-4	0.025	6	☐N-Nitrosociethylamine	55-18-5	0.40	28
☐Acrytamids	79-08-1	19	23	Dirans-1,2-Dichloroethylene	158-60-5	0.054	30	☐ H-Nitrosodimethylamine	62-75-9	0.40	2.3
	107-13-1	0.24	84	☐2.4-Dichlorophenol	120-83-2	0.044	14	ON-Nitroso-di-n-bettyamine	924-16-3	0.40	17
□ Acrylonitrile	309-00-2	0.021	0.068	2,5-Dichlerophenol	87-65-0	0.044	74	CIN-Nitrosomethylethylamine	10595-95-6	0.40	2.3
QAldrin		0.021	NA.	1.2-Dichioropropane	78-87-5	0.85	18	ON-Nitrosomorpholine	59-89-2	0.40	2.3
□4-Aminobiphenyl	92-67-1 62-53-2	0.13	14	Dicis-1,3-Dichieropropylene	10061-01-5	0.036	18	☐N-Nitrosoplperidine	100-75-4	0.013	35
Anillne		0.059	3.4	Quans-1,3-Dichioropropyiene	10061-02-6	0.036	18	CIM-Nikrosopyrrolidine	930-55-2	0,013	35
Anthracene .	120-12-7		NA NA	☐ Diaidria	60-57-1	0.017	0.13	☐ Parathion	56-38-2	0.014	4.5
☐ Aramite	140-57-8	0.36	0.088	Diethyl phthalate	84-66-2	0.20	28	☐Pentachlorobenzene	608-93-5	0.055	10
Dalpha-BHC	319-84-6	0.00014				0.13	NA NA	☐Pentachlorodibenzo-furans	NA.	0.000035	0.001
⊒beta-BHC	319-85-7	0,00014	D.066	Op-Dimethylaminoszobenzens	80-11-7	0.035	14	Pentachiorodibenzo-o-dioxins	NA.	0.000063	0.001
⊇delta-BHC	319-56-8	0.023	0.066	□2,4-Dimethyl phenol	105-87-9				78-01-7	0.055	
Igamma-BHC	58-89-9	0.0017	0.066	O Dimethyl phthalate	131-11-3	0.047	28	OPentachloroethane			8
Benz(a)anthrecena	56-55-3	0.059	3.4	CI Di-n-butyl phitmiete	84-74-2	0.057	28	☐Pentachioronitrobenzane	82-68-8	0.055	4.8
3 Benzal chioride	98-87-3	0.055	6,0	□1,4-Dinktrobenzene	100-25-4	0.32	2.3	C Pentachiorephenol	87-86-5	0.089	7.4
2 Benzane	71-43-2	0.14	10	Q4,6-Dinitro-o-cresol	534-52-1	0.28	160	C) Phenacetin	62-44-2	0.081	16
☐Benzo(a)pyrana	50-32-8	0.061	3,4	□2,4-Dinitrephenol	51-28-5	0.12	160	☐ Phenanthrens	85-01-8	0.059	5.6
3 Benzo(b) fluoranthene	205 <del>-99</del> -2	0.11	6.8	Q2,4-Dinitrolokiene	121-14-2	0.32	140	OPhenol	108-95-2	0.039	6.2
⊒Benzo(g,h,i)perylena	191-24-2	0.0055	1.5	Q2,6-DinRretoluene	806-20-2	0.55	28	☐ Phorate	298-02-2	0.021	4.6
] Benzo(k) Buorenthese	207-08-9	0.11	5,5	Oli-n-octyl phthalate	117-84-0	0.017	28	CIPhthalic acid	100-21-0	0.055	28
Dis-(2-Chiorpethoxy) methans	111-91-1	0.036	. 7.2	☐ Di-n-propyinitrosamine	621-64-7	0.40	14	☐Phthalic anhydride	85-44-9	0.055	28
Jbis-(2-Chioroathyl) ether	111-44-4	0.033	6.0	Olipherrylamine	122-39-4	0.92	13		23950-58-5	0.093	1.5
Dis-(Chioroisopropyi) either	106-60-1	0.055	7.2	☐ 1,2-Diphenylitydrazine	122-68-7	0.087	KA.	OPropanenitrile (Ethyl cyanide)	107-12-0	0.24	380
Dis-(Ethythexyl) phihalate	117-81-7	0.28	28	Opphenylnitrosamina	86-10-6	0.92	13	☐Pyrene .	129-00-0	0.087	8.2
] Bramodichioromethune	75-27-4	0.35	15	C11,4-Cioxana	123-91-1	NA	170	☐ Pyridine	110-85-1	0.014	16
2 Bromomethana (methyl				Op-Dimethylaminoazobenzene	60-11-7	0.13	NA	☐ Safrole	94-59-7	0.081	22
bromide)	74-83-9	0.11	15	□ Disulferon	296-04-4	0.017	6,2	☐8ilvex (2,4,5-TP)	93-72-1	0.72	7.9
24-Bromophenyl phenyl ether	101-55-3	0.055	15	Ci Endosullan i	939-95-8	0.023	0.066	□2.4.5-T	93-76-5	0.72	7.9
3 b-Sutyl alcohol	71-36-3	5.6	2,5	☐ Endosulfan II	33213-6-5	0.029	6.13	1.2.4.5-Tetrachiorobenzene	95-94-3	0.055	14
3 Butyl benzyl phthalate	85-68-7	0.017	28	CEndosultan sultate	1-31-07-5	0.029	0.13	☐ Tetrachiorodibenzo-furans	ΉÅ	0.000063	0.001
2-sec-Butyl-4,6-dinkrophenol				□ Endrin	72-20-8	0.0028	0.13	☐Tetrachioredibenzo-p-dioxins	HA	0.000063	
dinoseõ	88-85-7	0.066	2.5	DEndrin aldehyda	7421-93-4	0.025	0.13	C1.1.1.2-Tetrschloroethane	830-20-6	0.057	6.0
⊇Cartion dispitida	75-15-0	3.8	4.8 TCLP	☐ Ethyl acetate	141-78-6	0.34	33	□1.1.2.2-Tetrachioroethane	79-34-6	0.057	6.0
Carbon tetrachlorida	56-23-5	0.057	6,0	☐ Ethryl benzens	100-41-4	0.057	10	☐ Tetrachioroethylens	127-18-4	0.058	6.0
Chiordana (alpha & gamma			200	Clethyl ether	60-29-7	6.12	160	2,3,4,6-Tetrachlorophesol	58-90-2	0.030	7.4
isomers)	57-74-9	0,0033	0.26	☐ Ethyl methacrylate	97-63-2	0.14	160	□ Toluene	108-88-3	0.080	10
⊇p-Chloroaniline	105-17-8	0.46	16	☐Ethylens oxide	75-21-8	0.12	NA NA	C) Toxaphena	8001-35-2	0.0095	2.5
Chiorobenzena	108-90-7	0.057	8.0	O Famehur	52-85-7	0.017	15	☐Tribromomethane (bromoform)	75-25-2	0.63	15
3 Chlorobenzilate	510-15-6	0.10	HA	Officonanthene	206-44-0	0.068	3.4	1,2,4-Trichlorobenzene	120-82-1	0.055	19
32-Chioro-1,3-butadiene	125-99-5	0,057	0.28	OFIGOrene	86-73-7	0.059	3.4	1.1,1-Trichloroethane	71-55-6	0.054	6.0
1 Chiorodibromomethane	124-48-1	0.057	15	OHeptachlor	76-44-8	0.0012	0.066	Q1,1,2-Trichlorgethane	79-00-5	0.054	6.0
2 Chiloroethano	75-00-3	0.27	5.0	***************************************					79-01-6	0.054	<del></del>
⊇Chleroform	67-66-3	0.048	8.0	O Hieptachlor epoxide	1024-57-3	0.018	0.086	1 Trichloroethylene		<del> </del>	6.0
Ip-Chloro-m-cresol	59-50-7	0.018	14	O Hexachlorobenzene	118-74-1	0.055	10	☐ Trichleremenethyoromethans	75-89-4	0.020	30
12-Chloroethyl vinyl ether	110-75-8	0.082	NA NA	☐ Hexachiorobutadiene	87-68-3	0.065	5.6	□2.4.5-Trichlorophenol	95-95-4	0.16	7.4
DChloromethane (methyl				Cifexachiorodibenzo-furans	NA.	0.000063	0.001	C)2,4,6-Trichlorophenol	88-06-2	0.035	7.4
chioride)	74-87-3	0.19	30	☐ Haxachioredibenzo-p-dioxins	NA.	0.000063	0.001	1,2,3-Trichtoropropane	95-18-4	0.85	30
32-Chioronaphthalene	91-8-7	0.055	5.6	OHexachiorocyclepentadiene	77-47-4	0.057	2.4	□1,1,2-Trichioro-1,2,2- trilluoroethans	76-13-1	0.057	30
32-Chiorophenol	95-57-8	0.044	5.7	☐Hexachioroethane	87-72-1	0.055	30	☐Vinyl chloride	75-01-4	0.27	6.0
3-Chiocopropylens	107-05-1	0.036	30	OHexachioropropylene	1888-71-7	0.035	30		75-01-4 1330-20-7	0.32	30
3Chrysene	218-01-9	0.059	3.4	□Indena (1,2,3-c,d)pyrene	193-39-5	0.0055	3.4	OXylenes (total)			
2p-Cresol	105-44-5	0.77	5.6	□ledemethase	74-88-4	0.19	65	O Total PCBs	1836-35-3		10
3m-Cresol	108-39-4	0.77	5.8	☐ Isobutyl alcohol	78-53-1	5.6	170	Antimony	7440-36-0		0.07 TO
3o-Cresol	95-48-7	0.11	<b>\$.6</b>	□l\$odrin	485-73-6	0.021	0.086	QArsenic	7440-38-2		5.0 TI
1Cyclohaxanone	106-94-1	0.36	0.75 TCLP	Olsosafrois	120-58-1	0.081	2.5	□ Barlem	7440-39-3		21 TCL
32-4-Dichiorophenoxyzoetic				☐ Kepone	143-50-8	0.0011	0.13	□ Bary⊯um	7440-41-7	<del></del>	0.02 T
acid (2,4-D)	94-75-7	0.72	10	OMethacrylankrile	126-98-7	0.24	84	C) Cadmium	7440-43-9	<del></del>	0.2 TO
Jo.p'-000	53-19-0	0.023	0.087	QMathanol	87-56-1	5.6	0.75 TCLP	☐Chromium (total)	7440-47-3		0.85 T
Ͻρ,ρ'-000	72-54-8	0.023	0.087	☐ Methapyrilens	91-50-5	0.081	1,5	□Cyanide (total)	57-12-5	1.2	5901
Ωo,p'-00E	3424-82-6	0.031	0.087	QMethoxychlor	72-43-5	0.25	0.18	Cyanide (amenable)	57-12-5		304
3p,p'-00E	72-55-9	0.031	0.087	O3-Methylchicanthrene	58-49-5	0.0055	15	Q Figorida	16964-48-8	35	NA
Ͻο,p'-00T	789-02-8	0.0039	0.087	14.4-Methylene-bls-		0.0033		Clead	7439-92-1	0.59	0.75 T
700-'0,g	50-29-3	0.0039	0.087	(2-chloroanilne)	101-14-4	0.50	30	Mercury - NWW from Retort	7439-97-6	<del>}</del>	0.201
Dibenzo(2,e)pyrene	192-65-4	0.061	NA	☐ Methylana chiorida	75-09-2	0.089	30	Mercury – all others	7439-97-6		0.0257
20lbenzo(a,h)anthracens	53-70-3	0.055	6,2	Methyl ethyl ketone	78-93-3	0.28	38	□ Nickel	7440-02-0		13.6 T
Trits-(2,3-Dibromogropyi)	33.10.3	4244	37,6		<del></del>		33	OSelenkum <sup>*</sup>	7782-49-2		5,7 T
utris-(2,3-Diaramopropyi) phosphate	126-72-7	0.11	0.10	OMethyl Izobutyl katone	108-10-1	0.14					<del></del>
21,2-Dibromo-3-Chioropropane	96-12-8	0.11	15	Methyl methacrylate	80-62-6	0.14	160	QSliver 50	7440-22-4	<del></del>	0.117
21,2-Dibromoethane (ethylene	30-16-0	V+14		Methyl methansplionare	66-27-3	0.018	NA .	O Sulfide	8496-25-8		NA NA
distramida)	105-93-4	0.028	15	☐ Methyl Parathion	298-00-0		4.8	O Thaillium	7440-28-0	<del></del>	0.20 T
				☐ Naphthalene	91-20-3	0.059	5.6	□Vanadium <sup>4</sup>	7440-62-2	4.3	1.6 7
30ibromomethane	74-95-3	0.11	15			1					

GENERATOR NAME: SPORE EXPLOYATIONEPAID # CAROCO191536

ADDRESS: L BOCKET ROL MANIFEST # 00076524855K

HULLHOME, CA 90250

## ~~SEE INSTRUCTIONS (1,2,3 and 4)~~

Pursuant to CCR Title 22; Section 66268.7 (40 CFR 258.7), I hereby notify that this waste shipment contains one or more of the following wastes restricted under the land disposal restriction for which applicable treatment standards are set forth in CCR Title 22. Chapter 18, Land Disposal Restrictions.

Manifest Line	EPA Codes &	Description	LDR Waste	Determination:	Underline	Waste water
item Number	State Codes	Subcategory	Notification	of Waste	Hazardous	-0.400 hor 2000
		<b>的数数数据数据</b>	(Athruf)	Disposal (A or B)	Constituents (AB or C)	Non Waste water
ratio di Marania						
				2		
	Haller of the Control	in diagonal percentage				
	1 DON	Flammable	A	A	$\Delta$	ww
	219	Lavids		Property of	1 1	۔ جہ ت
7	Dool	Flammable	A	A	Λ	
	214					WW.
• 1 (2 %) (1 ) (2 ) (2 )	144	Liquids			1.1	
	186 49-5-17		With the Company	<b>的的。这个</b>		die Land
	1.00.000			\$\$\$\text{\$\exititt{\$\text{\$\exititt{\$\text{\$\text{\$\text{\$\text{\$\texititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\tex		
the section of the se	16.1		1000	Will the		
	Att He is			200 S	6 4 4 1 20 S. T.	<del>Garaga a</del>
marin day baga		201	Affirmation of the second	E SE CONTRACTOR		gile de Northerd Bell e en en en en
	2 11 11 11 11 11 11 11 11		Benda Lida di 1907	<b>数据证明证据</b>	<b>※</b> - 55 - 1815 - 35	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
alogi kalentari	kapitus er jak	Strip below a seri	物學是1997年1月中華	\$887 159A 19	等人的复数使用 特	
* * * * * * * * * * * * * * * * * * *		. Marin etga etak			** * * * * * *	
			344 L. 118			
1914 4 4 1 1 1 1			<u> 2000 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 </u>		10 C 10 C 10 C 20 C	De la Company
		angere arente a na sak				
				orbinda. 🔅		
建设施等等的	和中国的 医高质	<b>自然的图像</b>				
		26年1948年11日報		13. 1567 · · · · · · · · · · · · · · · · · · ·	Barton A. C. A.	
		Vice Tales in E				
				1 2 A A A A A A A A A A A A A A A A A A	(1998), Arti	

IF NECESSARY USE A CONTINUATION PAGE.

Page 1 of \_\_\_

CERT	11210	ΔΤ	ION

I certify under penalty of law that I personally have examined and am familiar with the waste thorough analysis and testing, or through knowledge of the process generating the waste, to support this certification. I believe that the information that I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

Space Exploration H GENERATORI COMPANY NAME DATE

4-16-09

LIGHT BENGIF OF SPACE EX

Avaceli Koolinguez CSR

	T	if WASTE WATER (W) Check to left	V) CUSTO	OMER: SOO	Λī	= <del>=</del>	xolora-from	······································				WASTE APPROVAL #		200.48
	I	if WASTE WATER (WV Check to left		11			able Liquids	<u> </u>	······································			EPA# (AROC	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	150 V
	S	n Regulated Constitueni	ww			$\top$		ww				I THOU	]	)153Ce
L	Check >	Common Name	Stardar mg/i	MWW Standan Img/kg unless TC		Check >	Regulated Constituent Common Name	Stardard mg/l	NWW Standard regring unless TCL		Check >	Regulated Constituent Common Name	Stardard mg/l	NWW Slargard mg/kg unless TCLS
001		Acenaphinylene	0.05		3,4 0		1-1 Oichiorethylene	0.025	<del> </del>	6 145	-	5-Nitro-o-toluidine	0.32	
003	2	Acenaphthene Aceione	0.05	<u> </u>	3.4 0 60 0		trans-1,2-Dichforoethylene	0.054	<u> </u>	30 146		o-Nitrophenol	0.02	
004		Acetonitrile	5.	_	38 0		2,4-Dichlorophenol 2,6-Dichlorophenol	0.044	<del></del>	14 147 14 148		p-Nitrophenol	0,12	25
005 006	4	Acelophenona	0.0		9,7 0		2.4-Cichlorophenoxyacetic acid/2,4-		1	10 149	1	N-Nitrosodiethylamine N-Nitrosodiamethylamine	0.4	
007		2-Acetylaminofluorene Acrolein	0.05		40 D		1,2-Dichloropropane	0.85		18 150		N-Nitroso-di-n-butylamine	0.4	
008		Acrylamide	1		23 0		cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene	0.036		8 151		N-Nitrosomethylethylamine	0.4	2.
009		Acrylonitrile	0,2	4	84 0		Dieldrin	0.033	0,1	8 152 3 153	├	N-Nitrosomorpholine N-Nitrosopiperidine	0,4	
010 011	<del> </del>	Aldrin 4-Aminobiphenyl	0.02	-,-			Diethyl phthalate	0.2		8 154		N-Nitrosopyrrolidina	0.013	~~~
012	-	Antine	0.8		VA 0		p-Dimethylaminoazobenzene 2-4-Dimethyl phenol	0.13	N			Parathion	0.014	4.6
013		Anthracene	0.059		4 0		Dimethyl phthalate	0.036		4 156 8 157		Total PCBs Pentachlorobenzene	0,1	10
014 015	ļ	Aramite alpha-8HC	0.36		IA O		Di-n-butyl phthalate	0.057		8 158		Pentachiorodibenzo-p-dioxins	0.055	0.001
016	-	beta-8HC	0.00014		56 08 56 08		1,4 Dinitrobenzene	0.32	2.			Pentachlorodibenzo-furans	0.000035	0.001
017	_	delta-BHC	0.023	· · · · · ·	6 08		4.6-Dinitro-o-cresol 2,4-Dinitrophenal	0.28 0.12		0 160 0 161		Pentachloroethane	0.055	6
018		gamma-SHC	0.0017	0.06	6 09		2,4-Dinitrolokiene	0.32		0 162		Pentachloronimobenzene Pentachlorophenol	0.065	4.8
019 020		Benzene Benz(a)anthracene	0.14		0 09		2,6-Dinitrotoluene	0.55		8 163		Phenacetin	0.081	7.4 18
021		Benzal chloride	0.055		4 09 6 09		Di-n-octyl phthalate Di-n-propylnitrosamine	0.017		164		Phonanthrene	0,059	5.6
022		Benzo(b) fouranthene	0.11		8 09		1,4-Diexane	0.4		4 166 1 166		Phenot Phorate	0.039	6.2
023 024		Benzo(k) fouranthene	0.11		8 09		Diphenylamine	0.92	<del></del>	167		Phthalic acid	0.021	4.6 28
625		Benzo(g,h,l)perylene Benzo(a) pyrene	0.0055		8 09 4 09		Diphenyinitrosamine	0.92		168		Phinaic anhydride	0.055	28
026		Bromodichloromethane	0.35		5 09	_	2,1-Diphenyihydrazine Disulfoton	0.087		169		Pronamide	0.093	1.5
027		Bromomethane/Methyl bromide			5 09	9	Endosulfan I	0.023		171		Pyrene Pyridine	0.067	8.2
028	—	4-Bromophenyl phanyl ether In-Butyl alcohol	0.055 5.6		5 10		Endolsulfan II	0.029		172		Satrole	0.081	16 22
030		Butyl benzyl phthalate	0.017		6 10 8 10:		Endosulfan sulfate Endrin	0.029		173		Silvex/2,4,5-TP	0,72	7.9
031		2-sec-Butyi-4,6 dinarophenol/Di		2,	5 103	3	Endrin aldehyde	0.025		174		1,2,4,50-Tetrachiorebenzene Fetrachiorodi-benzo-p-dioxins	0.0063	14
032		Carbon disulfide Carbon tetrachloride	3.8 0.057	4.8 mg/l TCU			Ethyl Acelate	0.34		176		etrachlorodibenzofurans	0.00063	0.001 0.001
034		Chlordane (siphs and gamms isomers			6 105 3 106		Ethyl benzene Ethyl cyanide/Propanenitnie	0.057		177		,1,1,2-Tetrachiorethane	0.057	6
035		p-Chloroaniline	0.46		107		Ethyl ather	0.24		178		I,1,2,2-Tetrachloroethane etrachloroethylene	0.057	6
036 037		Chlorobenzene Chlorobenzilate	0.057		108		xis(2-Ethylhexyl) phthalate	0.28	28		~~~	2.3,4,6-Tetrachlorophenoi	0.056	6 7,4
338		2-Chloro-1,3-butaciene	0.1 0.057		109	+	thyl methacrylate	0,14	160			okiena	0.08	10
039		Chlorodibromomethane	0.057		111	-	Ethylene oxide amphur	0.12		182		oxaphene	0.0095	2.6
040 041	~~	Chloroethane	0.27		112		louranthene	0.068		184		nbromomethane/Bromoform ,2,4 Trichlorobenzena	0.53 0.055	15 19
142		bis(2-Chloroethoxy)methane bis(2-Chloroethyr)ether	0.036		113		kiorene	0.059	3.4	<u> </u>		,1,1-Trichloroethane	0.054	13
143	7	Chloroform	0.046		115	1	feptachtor feptachtor epoxide	0.0012	0.066	186		,1,2-Trichloroathane	0.054	8
44		bis(2-Chloroisopropyi)either	0.055	7.2	116		lexachiorobenzene	0.055	0.066	187 188		richioroethylene richioromonofluoromethane	0.054	6
46		p-Chloro-m-cresol 2-Chloroethyl vinyl ether	0.018		117		lexachlorobulaciene	0.055		189		4,5-Trichiorophenol	0.18	30 7.4
47		Chloromethane/Mothyl chloride	0.19		119 119		lexachiorocyclopentadiene exachiorodibenzo-p-dioxins & furans	0.057		190		,4,6-Trichiorophenol	0.035	7.4
48		2-chioronaphthalene	0.055		120		exachioroethane	0.00063	9.001	191		4,5-Trichlorophenoxysoetic acid/2,4,5T	0.72	7.9
49 50		2-Chlorophenol	0.044		121	- 8	exachioropropylena	0.035		193		,2,3-Trichloropropane 1,2 Trichloro-1,2,2,trifloroethane	0.85 0.057	30 30
51	_	3-Chloropropylene Chrysene	0.036	30 3,4	122 123		ideno (1,2,3-c,d) pyrene idomethane	0.0055		194		s(2,3 Dibromopropyl) phosphate	0.11	0.1
52		o-Cresol	0.11		124		obutyi alcohoj	0,19 5.6		195		inyl chlorida	0.27	6
53	_	n-Cresol	0.77	5.6	125		odrin	0.021	170 0.068			ylenes-Total nimony	0,32	30
54 55	-	o-Cresol Cyclohexanone	0.77 0.36		126		osafrole	0.081		198		Senic	1.3	2.1mg/t TCLP 5.0mg/t TCLP
56	_	p-000	0.023		127 128		ethacrylonimie	0.0011	0.13			artum	1.2	7.6mg/ITCLP
57		1.p'-DDO	0.023		_		ethanol	0.24 5.6	0.75mg/t TCLF	200	_	erytlium admium	0.85	0.014mg/LTCLP
58		0.p'-00€ 0.p'-00E	0,031		130		етпарупівна	0.081	1.5			hromium (Total)	0.69 2.77	0.19mg/LTCLP 0.86mg/LTCLP
59 60		),p'-00E	0.031	0.087 0.087			éthoxychlor	0.25	0,18			yanida (Total)	1.2	590
51		,p'-DOY	0.0039		133		Methylcholanthrene 4 Methylene bis(2-chloroaniline)	0,0055 0.5		204	_	vanide (Amenable)	0.85	30
52		)ibenz(a,h)anthracene	0.055	8.2	134		ethylene chloride	0.089		205 206	~	ouride ad	35 0.69	NA 0.37mot TCLD
3		Pabenz(a,e)pyrene ,2-Dibromo-3-chloropropane	0.061	NA 16			ethyl ethyl kelon <del>a</del>	0.28	36	207		rousy-Nonwestawater from Retort	AN	0.37mg/fTCLP 0.20mg/fTCLP
55	- 6	,2-Diromosthane/ethylene.dbromide	0.11		136 137		ethyl isobutyl kelone ethyl methacrylala	0.14	33		M	ercury-All Others	0,15	0.025mg/ITCLP
6	Ō	ibromomethana	0.11		138		ethyl methansultonate	0.14	160 : NA			ckel	3.98	5.0mg/i TCLP
8		-Dichlorobenzene	0.036	6	139	М	othyl parathion	0.014	4.6			lienium ver	0.82 0.43	0.16mg/TCLP 0.30mg/LTCLP
9		-Dichlorobenzene -Dichlorobenzene	880.0		140		phthalene Vachthylamina	0.059	5.6	212	Su	ilide	14	NA NA
0	D.	ichlorodifiuoromethane	0.03	7.2			Vaphthylamine Vitroanitine	0.52 0.27	NA :			allium	1.4	0.078mg/LTCLP
1		1-Urchioroeinane	0.059	6	143	p-	litoaniène	0.028	14 2 28 2		Va Zir	nadium	4,3 2.51	0.23mg/ITCLP 5.3mg/ITCLP
2	[],	2-Dichloroethane	0.21	5	144	N	robenzene	0.068	14		سا		441	VIOLEN 1 CLT

	$\mathcal{L}_{\alpha}$		1 1		000	
GENERATOR NAM	IE: V/Q	ce the	1010 ibr	Y EPA I.D.#	UAHL	10014 153(
ADDRESS: 1 1/10	CLET	<u>ka.</u>		MANIFEST	#: <u>0U0</u>	1653 <u>53</u>
1100	Thorn	n= na	90150			
THE STATE OF THE S	711111					

#### ~~SEE INSTRUCTIONS (1,2,3 and 4)~~

Pursuant to CCR Title 22, Section 66268.7 (40 CFR 268.7), I hereby notify that this waste shipment contains one or more of the following wastes restricted under the land disposal restriction for which applicable treatment standards are set forth in CCR Title 22. Chapter 18, Land Disposal Restrictions.

Manifest Line Item Number	EPA Codes & State Codes LIST ALL	Description/ Subcategory	LDR Waste Notification (A thru F)	Determination of Waste Disposal (A or B)	Underline Hazardous Constituents (AB or C)	Waste water or Non Waste water
			,	2		4
	D001, F005 214	WF.L.	A	A	0	ww
	erika erika				Mennyah tang. Pandapa	
	1. 総1867. 3 H 3. 高285. 3 A A A					
galli maaya bala Amaga maanaa kawa						
<b>尼海髓中等</b> 等						(第4) 、 (黎)

If NECESSARY USE A CONTINUATION PAGE.

Page 1 of 2

CERT	ひにいへ	ハブル	rs N

I certify under penalty of law that I personally have examined and am familiar with the waste thorough analysis and testing, or through knowledge of the process generating the waste, to support this certification. I believe that the information that I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

Space Exploration 7/21/0
GENERATOR COMPANY NAME DATE

AUTHORIZED SIGNATURE OF SPACE EX PRINTED NAME TITLE COL

Г	Т		If WASTE WATER (WW)	Q1:0==	S.	~ ~~		Euglas I							200,40
-	H		Check to left if WASTE WATER (WW)	CUSTO				Explora-to				<del></del>	WASTE APPROVAL # 5		
-	╄		Check to left	WASTE	NAME: TO G	p	p	able Liquic	4	T	apromi	7	EPA# CAROOC	1915	236
_	Check >		Regulated Constituent Common Name	WW Stardard mg/i	mg/kg Grees (CE		Check >	Regulated Constituent Common Name	WW Stardard mg/t	NWW Stardard Img/kg unless TCLP		Check >	Regulated Constituent Common Name	WW Standard mg/l	NWW Stardard mg/kg unless TCLF
001	_	_	kcenaphthylene kcenaphthene	0.059		.4 073 .4 074		1-1 Dichlorethylene trans-1,2-Dichloroethylene	0.025 0.054		145		5-Nitro-o-toluidine	0.32	
003			Acatona	0.28		0 07		2,4-Dichlorophenol	0.054		146	╁—	o-Nitrophenol p-Nitrophenol	0.028	1 2
004 005		_	Celonitrie Celophenone	5.6 0.01		8 076		2,6-Dichlorophenol	0.044	14	148	-	N-Nitrosodiethylamine	0.4	2
006		-	-Acatylaminofluorene	0.059	1	7 07		2,4-Dichlorophenoxyacetic acid/2,4-D 1,2-Dichloropropane	0.72	10	149	1	N-Nitrosodiamethylamine N-Nitroso-di-n-butylamine	0.4	2.
007	2		crolein	0.29	N	A 079		cis-1,3-Dichloropropylene	0.036	18		1	N-Nitrosomethylethylamine	0.4	2.3
009			kcrylamide kcrylonimie	0.24		3 080		trans-1,3-Dichkropropylene Dieldrin	0.036	18		_	N-Nitrosomorpholine	0.4	2.3
010	1		Udrin	0.021		6 082		Diethyl phthalate	0.017		153 154		N-Nitrosopiperidine N-Nitrosopymolidine	0.013	3! 3:
011 012	L	_	-Aminobiphenyl Iniline	0.13 0.81		A 083		p-Dimethylaminoazobenzene	0.13	NA	155		Parattion	0.014	4.1
013	i		undracene	0.059		4 084 4 085		2-4-Dimethyl phenol Dimethyl phthalate	0.036	14	156 157		Total PCBs Pentachlorobenzene	0.1	10
014			varrie	0.36	N.	A 086		Di-n-butyl phthalate	0.057		158		Pentachiorodibenzo-p-dioxins	0.055	10 0.001
015 016	-		Ipha-8HC eta-8HC	0.00014		6 087 6 088	<u> </u>	1,4 Dinarobenzene	0.32		159		Pentachlorodibenzo-furans	0.000035	0.001
017			elta-BHC	0.023		6 089	I	4,6-Dinitro-o-cresol 2,4-Dinitrophenol	0.28		160 161	$\vdash$	Pentachioroethane Pentachioronizoberizene	0.055 0.055	
018 019		-47	amma-8HC	0.0017	0.06	6 090		2,4-Distrotokuane	0.32	140	162		Pentachlorophenol	0.089	4.8 7.4
020	-		enzene enz(a)antirracene	0.14		0 <b>091</b>	├	2,6-Dinitrotoluene Di-n-octyl phthalate	0.55		163		Phenacetin	0.081	16
021		8	enzal chloride	0.055		6 093		Di-n-propylnitrosamine	0,017		164 165		Phonantirone Phonoi	0.059	5.6 6.2
022 023			enzo(b) flouranthene enzo(k) flouranthene	0.11		094		1,4-Dioxana	12	170	168		Phorate	0.021	4.6
024	-	-	enzo(g,h,l)peryiene	0.11 0.0055		095 096	-	Diphenylamine Diphenylnitrosamine	0.92		167 168		Phthalic acid	0.055	26
025		Ē	enzo(a) pyrene	0.061	3.4	097		2,1-Diphenylhydrazine	0.087		169		Phthalic anhydride Pronamide	0.055	28 1.5
026 027			romodichloromethane romomethane/Methyl bromide	0.35 0.11		098		Disulfoton	0.017		170		Pyrene	0.067	8.2
028			Bromophenyl phenyl ether	0.055	1			Endosulfan I Endolsulfan II	0.023 0.029	0.066 0.13			Pyridine Salrole	0.014	. 16
029		_	Butyl alcohol	5.6	2,6			Endosulfan sulfate	0.029		173		Silvex/2,4,5-TP	0.081	22 7.9
030			utyl benzyl phthalate sec-Butyl-4,6 dirutrophenol/Dir	0.017		102 103		Endrin Endrin aldehyde	0.0028	0.13			1,2,4,50-Tetrachicrebenzene	0.055	14
032			arbon disulfide	3.8	4.8 mg/l TCLF			Ethyl Acetate	0.025	0.13 33	176		Tetrachlorodi-benzo-p-dioxins Tetrachlorodibenzofurans	0.00063	0.001 0.001
033 034			arbon tetrachloride Nordace (alpha and gamma isomers)	0.057 0.0033		105		Ethyl benzene	0.057	10	177		1,1,1,2-Tetrachlorethane	0.057	6
035			Chloroaniline	0.0033	0.26	106		Ethyl cyanide/Propanenitrile Ethyl ether	0.24		178 179		1,1,2,2-Tetrachicroethane Tetrachicroethylene	0.057 0.056	6
036		-	hlorobenzene	0,057	, e	1		bis(2-Ethylhexyl) phthalate	0.28	28			2,3,4,6-Tetrachiorophenol	0.03	7.4
037 038			hlorobenzilate Chloro-1,3-butadiene	0.1	NA 0.28			Ethyl methacrylate Ethylene oxide	0.14 0.12	160	181		Tokiene	0.08	10
039			nlorodibromomethane	0.057		111		Famphur	0.12	NA 15	182 183		Toxaphene Tribromomethane/Bromoform	0,0095 0,63	2.6 15
040 041			hkoroethane s(2-Chkoroethoxy)mathane	0.27 0.036	3.0	1		Flouranthene	0.068	3,4	184		1,2,4 Trichlorobenzens	0.055	19
042	-		s(2-Chioroethyl)ether	0.033		113		Fluorene Heptachlor	0.059	3.4 0.066	185 186		1,1,1-Trichloroethane 1,1,2-Trichloroethane	0.054	6
043		-	nioroform	0.046		115		Heptachlor epoxide	0.016	0.066	187		richkroethylene	0.054 0.054	6
044			s(2-Chloroisopropyl)ether Chloro-m-cresoi	0.055 0.018		116 117	~	Hexachkorobenzene	0.055		188	_	Inchloromonofluoromethane	0.02	30
046		2-0	Chloroethyl vinyl einer	0.062	NA.	118		Hexachlorobutadiene Hexachlorocyclopentadiene	0.055 0.057		189 190		2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	0.18 0.035	7.4 7.4
047 048			loromethane/Methyl chloride chloronaphthalene	0.19	30	119		iexachlorodibenzo-p-dioxins & furans	0.000063	0.001	191	Ž	.4,5-Trichiorophenoxyacetic acid/2,4,5Y	0.72	7.9
049			chiorophenol	0.055		120 121		lexachloroethane rexachloropropylene	0.055		192 193		1,2,3-Trichloropropane	0.85	30
050		3-0	Chloropropylene	0.036	30	122		ndeno (1,2,3-c,d) pyrene	0.0055	3.4			1,1,2 Trichloro-1,2,2,trifloroethane ris(2,3 Dibromopropyl) phosphate	0.057 0.11	30 0.1
051 052			rysene Cresol	0.059		123 124	l	odomethane sobutyl alcohol	0.19	65	195		/inyl chloride	0.27	6
053		æ	Cresol	0.77		125		sodutyi aleenoi sodirin	5,6 0.021	170 0.068			(ylenes-Total Anamony	0.32 1.9	30 2.1mg/i TCLP
054			Cresol	0.77	5.6	126		sosalrole	0.081	2.6	198		vsenic	1.4	5.0mg/s TCLP
055 056			clohexanone V-DDD	0.36	0.75mg/f TCLP 0.087			(epone Vethacrylonitrile	0.0011	0.13			Barium Ba-allium	1.2	7.6mg/ITCLP
057		р.р	'-DD0	0.023	0.087	129		west act you to lie	0.24 5.6	84 0.75mg/l TCLP			Beryllium Cadmium	0.85 0.69	0.014mg/LTCLP 0.19mg/LTCLP
058 059			7-DDE 7-DDE	0,031	0.087			Aethapyniene	0,081	1.5	202		Chromium (Total)	2.77	0.86mg/ITCLP
060			1-00T	0.031	0.087 0.087			Aethoxychior -Methylcholanthrene	0.25	0.18 15			Cyanida (Total)	1.2	590
061		p,p	-DDT	0.0039	0.087	133	- 4	.4-Methylene bis(2-chloroaniline)	0,5	30			Cyanide (Amenable) Founde	0.86 35	30 NA
062 063			enz(a,h)anthracene benz(a,e)pyrene	0.055		134 135		lethylene chloride	0.089	30			ead	0.69	0.37mg/iTCLP
064		_	-Dibromo-3-chloropropane	0.11		136		fethyl ethyl ketone lethyl isobulyl kelone	0.28 0.14	36			fercury-Nonwastewater from Retort fercury-AR Others	NA 0.15	0.20mg/LTCLP 0.025mg/LTCLP
065			Obromoethane/ethylene dibromide	0.028	15	137		lethyl methacrylata	0.14	160	209	- 1	lickel	3.98	5.0mg/l TCLP
066 067			romomethane Dichlorobenzene	0.11		138		lethyl methansulfonate lethyl parathion	0.018 0.014	NA .		_	elenium	0.82	0,16mg/TCLP
068		٥	ichkrobenzene	880.0		140	ñ	aphthalene	0.059	4.6 5.6			iver ullida	0.43	0.30mg/ITCLP NA
069 070		_	ichlorobenzene hlorodifivoromethane	0.09		141		Naphthylamine	0.52	NA .	213	Ī	haliium	1.4	0.078mg/ITCLP
0/1			-Dichloroethane	0.23 0.059	7.2	142		Nitroaniine Nitroaniine	0.27	14 : 28 :			anadium inc	4.3	9.23mg/l TCLP
172		1,2	-Dichloroethane	0.21		144	Ľ.	vobenzene	0.058	14	-		AND THE PROPERTY OF THE PARTY O	2.51	5.3mg/FTCLP

G	ĭΕ	NE	R	ΑŢ	0	R١	Ų٨	M	Ε:		Z	2	Ċ		ì	3	4	Q	lc	)	C		L	Ъ	Y	1		*	F	Ά	1.	Э.	#	(	1	Δ	Ý	7	-	k	) [	q	1	$\epsilon$		3 (	٥	
		• • •		ss								٠		7.				11:3																					7.						2	11:	Α,	
						1				* * * *	11	٠.	. :							277	7	Ć	) (	2_	1	52	)																					7

### ---SEE INSTRUCTIONS (1,2,3 and 4)---

Pursuant to CCR Title 22, Section 65268.7 (40 CFR 268.7). I hereby notify that this waste shipment contains one or more of the following wastes restricted under the land disposal restriction for which applicable treatment standards are set forth in CCR Title 22. Chapter 18, Land Disposal Restrictions.

Manifest Line	EPA Codes &	Description/	and the second	All a Danah laba.		ustania, midy.
Item Number	State Codes	Subcategory	LDR Waste Notification	Determination of Waste	Underline Hazardous	Waste water
	LIST ALL		(Athru F)	Disposal (A or B)	Constituents (A,B or C)	Non Waste water
e and many account a contract						
			1	2.		100
	TVA	72 3 1 1 C		A		10 10 10 10 10 10 10 10 10 10 10 10 10 1
1004404	DOO!	Flammable	A		0	WUD
	23	Liguid	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		25.39X0.00 m	11 12 12 12 12 12
	Selection of the select	in the final state of				
	ed apperer	-m			Profession 19	7
	自轉換的時	E1975 (1975)	<b>网络中国工作的</b>	189411A-111W		88 1,238 35
[2] A. L. M. L. M						
			749.200 1,1 11 11 11 11	XX. 14.5		Vie stratis
			WAY LATER		3.5439/49 A. 21	2000 W 1 x
1995 in 1997 (1997)	医乳管 医乳管 医二甲基	(\$1.50 mily.\$41.45)			15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
MANASTA PA	3 - 1 days (1 days 1 days)		Was to the country	Western Francisco	We will av	
Hariat Walife Track	s Arrender i 18	fair taile sail	desertation in the	BORDS IN NEEDS AS		A CONTRACTOR
					110 - 100 100 100 100	
	· · · · · · · · · · · · · · · · · · ·		1943 - 1944 1948 - 1944		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	20. 1					Section
APPROVED BRIDGE HOUSE	BONES AND		Park Court of Grades	rater that ,		en regen
· 推动设施设施		<b>维克尔中省70000 型</b>		的"别理解"。其		
			調性の対象の関			Santa Santa
10 基第一等等	i liya i Aa			2-1-47-48-10 A	A 42	
, ,,, ,- ,- ,-						1,12

If NECESSARY USE A CONTINUATION PAGE.

_		_	
<sup>2</sup> 20#	1	αĒ	

I certify under penalty of law that I personally have examined and am familiar with the waste thorough analysis and testing, or through knowledge of the process generating the waste, to support this certification. I believe that the information that I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

GENERATOR COMPANY NAME DATE

CAUTHORIZED SIGNATURE SPACETZ. Argotti Rodriguez CSR

001 002 003 004 005 006 007 008 009 110 111 111 113 113 114 115 115 115 115 115 115 115 115 115	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Check to left  if WASTE WATER (WW) Check to left  Regulated Constituent Common Name  cenaphthylene cenaphthene cetone cetone cetone cetophenone Acetylammofluorene crylonimie drin Aminophenyl miline lithracene amilia bha-BHC ta-BHC	WASTE WW Stardam mg/  0.055 0.055 0.055 0.022 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025	NAME TO A NAME T	3.4 C 3.4 C 3.4 C 3.8 C 3.8 C 3.7 C 40 C 3.8 C 3	777 773 774 775 776 777 800 81	Regulated Constituent Common Name  1-1 Dichlorethylene trans-1,2-Dichloroethylene 2,4-Dichlorophenol 2,6-Dichlorophenol 2,4-Dichlorophenol 2,5-Dichlorophenol 2,5-Dic	WW Stardar mg/l 0.02 0.05 0.04 0.04 0.04 0.04 0.03 0.03	mora unless (C.	6 14: 30 14: 14 14: 14 14:		WASTE APPROVAL # 3  EPA # ( A R ) ( A	0.32 0.028 0.42 0.44	NWW Standard Img/kg uniose TCI
001 002 003 004 005 006 007 008 009 100 111 122 133 144 145 166 177 188 199 200 211	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Regulated Constituent Common Name  conaphthylene conaphthene conaphthene colorie colorie Acetylammofluorene crolein crylamide crylonimie ddin Aminobiphenyl illine ithracene amile shi-BHC ta-BHC	0.055 0.055 0.22 5.6 0.055 0.22 15 0.022 0.022 0.035 0.035 0.036 0.036 0.00014	NWW Stardard mg/kg unless TC	3.4 C 3.4 C 3.4 C 560 C 38 C 40 C 40 C 40 C 40 C 40 C 40 C 40 C 40	173 174 175 176 177 178 179 80 91	Regulated Constituent Common Name  1-1 Dichlorethylene trans-1,2-Dichloroethylene 2,4-Dichlorophenol 2,6-Dichlorophenol 2,4-Dichlorophenol 1,2-Dichlorophenol cs-1,3-Dichloropropylene trans-1,3-Dichloropropylene	Stardar mg/l 0.02 0.05 0.04 0.04 0.04 0.07	mg/kg unless TCL	6 14: 30 14: 14 14: 14 14:		Regulated Constituent Common Name  5-Náro-o-lokidine o-Nárophanol p-Nitrophanol N-Nitropodethylamine	WW Standard mg/l 0.32 0.028 0.12 0.4 0.4	NWW Standard mg/kg unless TCI
001 002 003 004 005 006 007 008 009 100 111 122 133 144 145 166 177 188 199 200 211	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Common Name  cenaphthylene cenaphthene cetone cetone cetone Acetylamnofluorene crolein crylamide crylonimie ddin Aminobiphenyl illine thracene amile sha-BHC ta-BHC	\$\text{Stardammg/s}\$  0.055  0.051  0.22  5.1  0.07  0.055  15  0.24  0.021  0.031  0.36  0.36  0.366  0.00014	9 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.4 C 3.4 C 3.4 C 560 C 38 C 38 C 40 C 40 C 40 C 40 C 40 C 40 C 40 C 40	773 774 775 776 777 788 779 80 81	1-1 Dichlorethylene trans-1,2-Dichloroethylene 2,4-Dichlorophenol 2,5-Dichlorophenol 2,4-Dichlorophenolysesic sod2,4- 1,2-Dichloropropane cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene	Standar   mg/l	mg/kg unless TCL	6 14: 30 14: 14 14: 14 14:		Common Name  5-Nitro-o-tolkidine o-Nitrophenol p-Nitrophenol N-Nitrosodiethylamine	0.32 0.028 0.12 0.4 0.4	mg/kg uniess TC
002 003 004 005 006 007 008 009 110 111 112 113 114 115 116 117 118 119 121 121 121 121 121 121 121 121 121	Accordance	cenaphthene celone celonitrie celophenone Acetylamnofluorene crylonitrile drin Aminobiphenyl nitracene amile sha-BHC ta-BHC	0.051 0.22 0.055 0.255 0.255 0.224 0.023 0.031 0.058 0.365 0.00014	9 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3.4 C 60 C 38 C 9.7 C 40 C 23 C 84 C 66 C	774 175 176 177 178 179 80 81	trans-1,2-Dichloroethylene 2,4-Dichlorophesol 2,5-Dichlorophesol 2,4-Dichlorophesol soid 2,4- 1,2-Dichloropropane cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene	0.05 0.04 0.04 0.07 0.8 0.03	4 2 5 5	30 146 14 143 14 148 10 148		o-Nitrophenol p-Nitrophenol N-Nitrosodiethylamine	0.028 0.12 0.4 0.4	
033   004   005   006   007   008   009	Acceptage Accept	cetone  cetoniste cetoniste cetophenone Acetylamanifluorene crotein crotein crytamide crytamide crytamide drim Aminobiphenyl lilline lithracene arriste sha-BHC ta-BHC	0.22 5.6 0.05 0.25 15 0.24 0.021 0.13 0.81 0.059 0.36	0.00	60 0 38 0 9.7 0 40 0 40 0 23 0 84 0 66 0 44 0	775 776 77 78 79 80 81	2,4-Dichlorophesol 2,6-Dichlorophesol 2,4-Ochlorophesol 2,4-Ochlorophesopsesis soid/2,4 1,2-Oschloropropane cis-1,3-Oschloropropylene trans-1,3-Oschloropropylene	0,04 0.04 0 0.7 0.8 0.03	4 2 5	14 141 14 148 10 149		p-Nitrophenol N-Nitrosodiethylamine	0.028 0.12 0.4 0.4	
05   06   07   08   09   10   11   12   13   14   15   16   17   18   19   10   11   12   12   13   14   15   15   15   15   15   15   15	Acceptage of the second of the	cetonisie cetophenone Acetylammofluorene crotein crytenide crytenide drin Aminobiphenyl liline lithracene amile sha-BHC ta-BHC	5.0 0.05 0.25 15 0.22 0.021 0.13 0.81 0.059 0.36	0.00	38 0 9,7 0 40 0 VA 0 23 0 84 0 66 0 VA 0	76 77 78 79 80 81	2,6-Dichlorophenol 2,4-Ochlorophenoryscetic soid2,4- 1,2-Dichloropropane cis-1,3-Dichloropropytene trans-1,3-Dichloropropytene	0.04 0 0.7 0.8 0.03	2	14 148 10 149		N-Nitrosociethylamine	0.4	
066 077 088 099 100 111 122 133 144 145 166 177 188 199 200	2: Acc Acc Acc Acc Acc Acc Acc Acc Acc Ac	Acetytaminofluorene crolein crytamide crytoninie ddin Aminobiphenyt illine uttracene amilie soha-BHC ta-BHC	0.055 0.22 15 0.24 0.021 0.13 0.81 0.059 0.36	0.00	40 0 23 0 84 0 66 0 44 0	78 79 80 81	2.4-Ochlorophanoxyscelic acid2,4- 1,2-Oichloropropane cis-1,3-Oichloropropylene trans-1,3-Oichloropropylene	0.03 0.03	5	10 145		**************************************	0,4	
07 08 09 10 11 12 13 14 15 16 17 18 19 19	Acc	crolein crylamide crylamide crylamide drin Aminobiphenyl lilline lithracsne amilie sha-8HC ta-8HC	0.25 0.24 0.021 0.13 0.81 0.059 0.36	0.00	VA 0 23 0 84 0 66 0 VA 0 14 0	79 80 81 82	cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene	0.03	5					
08 09 10 11 12 13 14 15 16 17 18 19 20	Acc	crylamide crylonimie drin Aminobiphenyl niline amilia amilia shracene amilia sha-BHC ta-BHC	0.24 0.021 0.13 0.81 0.059 0.36	0.00	23 0 84 0 65 0 44 0 14 0	80 81 82	trans-1,3-Dichloropropylene			18 150		N-Nitroso-di-n-bulylamine	0.4	<u> </u>
10 11 12 13 14 15 16 17 18 19 20	Alc 4-/ An An Arz alp bet dei gar Ber Ber	drin Aminobiphenyl Ililine Ilthracene amilia Sha-BHC Is-BHC	0.021 0.13 0.81 0.059 0.36 0.00014	0.00	84 0 66 0 44 0 14 0	81 82		0.03		8 151 8 152		N-Nitrosomethylethylamine	0.4	I
11 12 13 14 15 16 17 18 19 20	An An Arialp bet del gar Ber Ber	Aminobiphenyl niline uthracene amile sha-BHC ta-BHC tta-BHC	0.13 0.81 0.059 0.36 0.00014	3	IA 0			0.017	<del></del>		-	N-Nitrosomorpholine N-Nitrosopiperidine	0.4	<u> </u>
12 13 14 15 16 17 18 19 20	An An An alp bet dei gar Ber Ber	ilitine iltracene amilie sha-BHC ta-BHC ta-BHC	0.81 0.059 0.36 0.00014	3	14 0	53 I	Diethyl phthalate	0.2		8 154		N-Nitrosopyrrolidine	0.013	<u></u>
14 15 16 17 18 19 20	Ara alp bet del gar Ber Ber	amite sha-BHC ta-BHC tta-BHC	0.36 0.00014	<u> </u>	<del>.,i</del>	_	p-Cimethylaminoazobenzene 2-4-Dimethyl phenol	0,13		A 155		Parathion	0.014	
15 16 17 18 18 19 20	alp bet del gar Bet Bet	sha-BHC ta-BHC tta-BHC	0.00014	N	4 0		Dimethyl phthalale	0.047		4 156 8 157		Total PCBs Pentachlorobenzene	0,1 0,055	
16 17 18 19 20 21	bet dei gar Bet Bet	ta-BHC . Ita-BHC	1		IA DI		Di-n-butyl phthalate	0.057	2	B 158		Pentachlorodibenzo-p-dioxins	0.000063	0,0
18 19 20 21	gar Ber Ber		0.00014		6 08 6 08		1,4 Dinarobenzene 4,6-Olnitro-g-cresol	0.32		3 159		Pentachiorodibenzo-Arrans	0.000035	0.0
19 20 21	Ber Ber		0.023	0.06	6 0	9	2,4-Dinitrophenal	0.12		0 160 0 161		Pentachioroeitane Pentachioroniirobenzene	0,055 0,055	
2	Ber Ber	mma-8HC nzene	0.0017		6 09		2,4-Dinitrotoluene	0,32	14	0 162		Pentachtorophenol	0.089	
22	Ber	nz(a)anthracene	0.059	The second second second	0 09		2,6-Dinitrotoluene DI-n-octyl phthalate	0.55		8 163		Phenacetin	0.081	
		nzal chloride	0.055		6 09		Di-n-propylnitrosamine	0.017		8 164 4 165		Phonantizone Phonoi	0.059	
3		nzo(b) flouramhene	0.11	1-14-41	8 09	. I	1,4-Dioxane	12		166		Phorate	0.039	
4		nzo(k) Bouranthene nzo(g.h.i)perylene	0.0055		8 09 8 09		Diphenylamine Diphenylnitrosamine	0.92	The second secon	167	_	Phihalic acid	0.055	
5		nzo(a) pyrene	0.061		4 09		2,1-Diphenyihydrazina	0.92		168	_	Phinaic anhydride	0.055	·····
5 7		modichioromethane	0.35		5 09		Disulfoton	0.017		170		Pronamide Pyrene	0.093	
8		rnomethane/Methyl bromids romophenyl phenyl ether	0.11		5 09 5 10		Endosulian I	0.023		171		Pyridina	0.014	· · · · · · · · · · · · · · · · · · ·
9	<del></del>	utyl alcohol	5.6		6 10		Endolsullan II Endosullan sullata	0.029		172 173		Safrole	0.081	
0		yl benzyl phihalate	0.017	21	8 10:	2	Endrin	0.0028		174		Silvex/2,4,5-TP 1,2,4,50-Tetrachiorebenzene	0.72	
1 2		ec-Bulyi-4,5 dirutrophenol/Dir bon disuifida	0.066 3.8	2.5 4.8 mg/t TCLF	5 10		Endrin aldehyde	0.025	0.13	175		Tetrachiorodi-benzo-p-dioxins	0.00063	0.0
3		bon letrachloride	0.057		3 10:		Ethyl Acetate Ethyl benzene	0.34		176		etrachiorodioenzolurans -	0.00063	0.00
1		rrians (alpha and gamms isomers)		0.28	100	1	Ethyl cyanide/Propanenitrile	0.037		178		1,1,1,2-Tetrachiorethane 1,1,2,2-Tetrachioroethane	0.057	<del></del>
5  5	_	hlorpaniline oxobenzene	0.46 0.057	****	107		Éthyi other	0.12	160	179		etrachioroethylene	0.056	
7		probenziale	0.057		100	1	bis(2-Ethylhexyl) phthalate Ethyl methacrylate	0.28 0,14	28			2,3,4,6-Tetrachiorophenol	0.03	7
3	_	hioro-1,3-butaciene	0.057		110		Ethylene oxide	0.12	160 NA	181		Cottene Cottonene	0.0095	
3		orodbromomethane oroethane	0.057 0.27		111	1	Famphur	0.017	~	183		ribromomethane/Bromotorm	0.63	
		2-Chloroethoxy)methana	0.036		112		Flouranthene Fluorene	0.068		184		1,2,4 Trichlorobenzane	0.055	
		2-Chioroethyl)ether	0.033		114		Heptachior	0.0012	0.066	185	_	,1,1-Trichloroethane ,1,2-Trichloroethane	0.054	
		xaform 2-Chloroisopropytjether	0.046	~~~~	115		Haptachlor epoxide	0.016	0.066			richloroethylene	0.054	
		Noro-m-cresol	0.055 0.018		116		Hexachlorobenzene Hexachlorobutaciene	0.055		188		nchloromonofluoromethane	0.02	,
		Noroethyl vinyl ether	0.062		118		Hexachlorocyclopentactione	0.057		189 190		.4,5-Trichlorophenol .4,6-Trichlorophenol	0.18	7.
		romethane/Methyl chloride loronaphthalene	0.19		119		iaxachiorodibenzo-p-doxina & furana		0.001			4,5-Trichlorophenorysoetic acis/2,4,5T	0.72	7. 7.
		lorophenof	0.055		120 121		fexachloroethane nexachloropropylene	0.055		192	1	,2,3-Trichloropropane	0.85	3
		icropropylena	0.036		122	-	ndeno (1,2,3-c,d) pyrene	0.035		193 194		,1,2 Trichloro-1,2,2,trifloroethane is(2,3 Dibromopropyl) phosphate	0.057	
	Chry: o-Cre		0.059		123		ocomemane	0.19		195		inyl chloride	0.11	0.
	m-Cri		0.77		124 125		sobutyl alcohol sodran	5.6		196		ylenes-Total	0.32	3
	p-Cre		0.77		126		50s3trole	0.021	0.066	197		nilmony rsenic	1.9	2.1mg/i TCL
	Cyclo o.p-C	heranone	0.36	0.75mg/t TCLP			(apone	0.0011	0.13			апил	1.4	5.0mg/i TCL 7.6mg/i TCL
	p.p'-D		0.023	0.087 0.087			dethacrylonitrile dethanol	0.24		200		eryllium	0.85	0.014mg/LTCL
	o.p'-0	DE	0,031	0.087	130	_	hethapyniene	5.6 0.081	0.75mg/t TCLP	201		admium hromium (Total)	0.69	0.19mg/ITCL
	p.pD a,o-0		0.031	0.087		j	Aethaxychlor	0.25	0,18			yanida (Total)	2.77	0.86mg/l TCL 59
_	0,0-D		0.0039	0.087 0.087			-Methylcholanthrene 	0.0055		204	C	yanide (Amenable)	0.86	3
	Diben	iz(a,h)anthracene	0.055	8.2			fethylene chlorida	0.5 0.089	30	205 206	_	ouride 2ad	35	N.
		nz(a,e)pyrene	0,061	NA			lemyi ethyi kelona	0.28	36			ercury-Nonwastawater from Resort	0.69 NA	0.37mg/ITCLI 0.20mg/ITCLI
		ibromo-3-chloropropane romoshane/sthylene dbromde	0.11 0.028		136 137		lestryt isobutyl kelone lestryt methocodete	0.14	33	208	М	ercury-All Others	0.15	0.025mg/1TCL
C	Dibron	momethane	0.11	15			lethyl methacrylate lethyl methansuilonale	0.14	160] NA			ckel	3,98	5.0mg/ITCL
		hiorobenzene	0.036	ô	139	N	lethyl parathion	0.014	4.6		_	alenium Iver	0.82 0.43	0.16mg/TCL/ 0.30mg/tTCL/
		nkorobenzene nkorobenzene	0.088		140		aphthalene	0.059	5.6	212		ilide	14	NA
0	)ichio	rodifucromethane	0.23	7.2	141		Naphthylamine Nitroantine	0,52	NA 14			allum	1.4	0.078/mg/iTCLF
1	,1-Di	chloroethane chloroethane	0.059 0.21		143		Nivoaniine	0.028	14 : 28 :		Va Zi	กรณ์เนท กร	4.3 2.51	0.23mg/LTCLF 5.3mg/LTCLF

#### Siemens Water Technologies Corp.

## LAND DISPOSAL RESTRICTION NOTIFICATION FORM

Pursuant to CCR Title 22, Section 66268.7(40 CFR 268.7(a), I hereby notify that this waste shipment contains one or more of the following wastes restricted under the land disposal restrictions for which applicable treatment standards are set forth in CCR Title 22, Section 66268.40 (40 CFR 268.40)

· .				`		
Manifest Num# 0007	EE22E LIK Con	4 Nf (	מאים הורי די אנט	•		
RCRA HAZARDOUS			SPACE EX		EPA#CAR000191536	
U.S.F. PROFILE	List all	Subcategory	WASTE	WATER*/	California List **	Hazardous Debris Subject To
NUMBER/ MANIFEST LINE ITEM NUMBER	D, F, K, U & P	(PE ANIVA		TEWATER	Per CCR Title 22, Section	GCR Title 22, Sec 66268.45
LINE HEMINUMBER	Codes	(IF ANY)	ww	NWW	66268,32	·
1)AP169389	D007			X	☐For:	
			П		☐ For:	П
				<del>                                     </del>		
					L For:	
					For:	
ADDITIONAL INF	ORMATION F	OR D001, D002	≀, D012-43	, F001-5 a	F039 WASTE STREAM	S: (check one)
There are no und	derlying hazardo	ous constituents (l	JHCs) prese	ent		•
☐ There are underly	ying hazardous	constituents (UHC	s) present w	vhich do not	meet treatment standards	per CCR Title 22, Section
00200.40						
DETERMINATION	PASED IIDAI	no check the appli	opriate cons	tituent(s) pre	esent in the waste stream)	
			1.0.			
		ating the waste ar			ed and the reaction products	<b>;</b> .
Results from ana	lytical testing		Anal	lytical result:	s attached 🛛 YES 💢 🗎 N	0
-						
TERM DEFINITIO						
WASTEWATER :	= per CCR Title 2	22, Section 66260.10	0, WASTE TH	IAT CONTAIN	S LESS THAN 1% BY WEIGH	IT TOTAL TOXIC ORGANICS
(TOCs) AND 1% BY W	EIGHT TOTAL SU	JSPENDED SOLIDS	3 (TSS).			
CALIFORNIA LIST	THE FOLLOWIN	NG HAZARDOUS W	ASTES ARE	PROHIBITED	DEDOMIAND DISDOSAL - no	er CCR Title 22, Section 66268.32
· Liquiu ilazaluous v	waste with a Drile	iss than or equal to 2	2.0			FCCR Title 22, Section 65268.32
<ul> <li>Liquid hazardous v</li> </ul>	vaste containing f	PCB's at concentration	on of oreater t	than or equal	to 50 ppm	
<ul> <li>Liquid hazardous v 1,000 mg/L</li> </ul>	waste, including fi	ree liquids associate	ad with any sc	olids/sludge, o	containing free cyanide at con-	centrations greater than or equal to
	vaste including fr	aa liguida aagaalata.	d with one eat		and the second second	
following:	-uoto, moidaing m	ee iiquius associatet	a with any son	ias/sidage, co	ontaining metals at concentration	ons greater than or equal to the
ARSENIC	500 mg/L		MERCURY	,	20 mg/L	
CADMIUM CHROMIUM	100 mg/L		NICKEL		134 mg/L	
LEAD	500 mg/L 500 mg/L		SELENIUM THALLIUM		100 mg/L,	
		is HOC's in total cor	1 Innuation are	ester than or	130 mg/L equal to 1 000 mg/l	
Non-liquid RCRA h	azardous waste c	containing HOC's in	total concentr	ation greater	than or equal to 1,000 mg/L	
CERTIFICATION						
certify under penalty	of law that I pers	sonally have exami	ned and am f	familiar with	the waste through analysis a	and testing or through knowledge
A THE MASIC TO SUDDO!	tuna cenuncano	II). I CRIBVA TOST TO:	a intormation	n   have necess	nitted is true, accurate and c ty of a fine and imprisonmen	
SOS for SPACE	EX	d laise ceruncano	n, including t	the possibility	ty of a fine and imprisonmen	t
	L271		11	<u>~                                     </u>	<del>-</del>	6/25/09
COMPANY NAME	•		AUTH	HORIZED S	GNATURE	DATE



Generator:SPACE EXPLORATION TECHU.S. EPA I.D. #:CAR000191536								
Profile #407397-00, 390575-00, 408763-00, 408764-00, 408760-00 Manifest #: 000765325JJK								
The wastes identified on this form are subject to the land disposal restrictions of 40 CFR Part 268. The wastes do not meet the treatment standards specified 268, Subpart D or do not meet the applicable prohibition levels specified in 268.32. Pursuant to 40 CFR 268.7(a), the required information applicable to each is identified below (check all boxes that apply):								
Treatability Group: ☐ Wastewater ☐ Nonwastewater (Wastewaters contain less than 1% filterable solids and less than 1% Total Organic Carbon)								
D001 Ignitable (except for High TOC) managed in non-CWA/non-CWA-equivalent/non Class I SDWA systems  (Complete form UC, unless D001 is the only "D" code and the waste is to be combusted or recovered.)  X D001 Ignitable (except for High TOC) managed in CWA/ CWA-equivalent/Class I SDWA systems  □ D001 High TOC Ignitable (greater than 10% total organic carbon)  D002 Corrosive managed in non-CWA/non-CWA-equivalent/non Class I SDWA systems (Complete form UC)  □ D002 Corrosive managed in CWA/ CWA-equivalent/Class I SDWA systems  □ D003 Reactive Sulfides based on 261.23(a)(5)  □ D003 Reactive Cyanides based on 261.23(a)(5)  D003 Water Reactives based on 261.23(a)(2),(3) and (4) managed in non-CWA/non-CWA-equivalent/non Class I SDWA systems (Complete form D003 Water Reactives based on 261.23(a)(2),(3) and (4) managed in CWA/ CWA-equivalent/Class I SDWA systems  □ D003 Other Reactives based on 261.23(a)(1) (Complete form UC)								
If D004-43 boxes are checked, complete and attach Form UC to address underlying hazardous constituents (unless these wastes are to be managed in CWA/CWA-equivalent/CSDWA systems):								
□ D004 Arsenic         □ D005 Barium         □ D006 Cadmium         □ D006 Cadmium-containing batteries           □ D009 High mercury inorganic (>260 mg/kg total), including incinerator residue and residues from RMERC         □ D009 High-mercury organic (>260 mg/kg total), not including incinerator residue         □ D009 Low-mercury (<260 mg/kg total), not including incinerator residue								
Note: If any bolded entries are checked, form UC must be completed to address underlying hazardous constituents, unless the material is treated in a Clean Water A (CWA) treatment process or unless otherwise noted above.								
In addition, the following wastes are included in this shipment:  XX F001-F005 spent solvents. (If this box is checked, complete the F001-F005 section on the back of this form. Check the hazardous waste number(s) that applies, and								
identify the constituents likely to be present in the waste.)								
If this shipment carries additional waste codes that are not addressed above, identify them here:								
EPA Waste Code Subcategory (if applicable) EPA Waste Code Subcategory (if applicable)								

This is a two sided form

Ha	zardous waste description	Regulated hazardous constitue	<u>nts</u>
	F001 Spent halogenated solvents used in degreasing	Carbon tetrachloride Tetrachloroethylene Trichloroethylene Trichloromonofluoromethane	Methylene chloride 1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
	F002 Spent halogenated solvents	Chlorobenzene Methylene chloride 1,1,1-Trichloroethane Trichloroethylene Trichloromonofluoromethane	o-Dichlorobenzene Tetrachloroethylene 1,1,2-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
	F003 Spent non-halogenated solvents	Acetone Cyclohexanone* Ethyl benzene Methanol* Xylenes (total)	n-Butyl alcohol Ethyl acetate Ethyl ether Methyl isobutyl ketone
	F004 Spent non-halogenated solvents	<i>m</i> -Cresol <i>p</i> -Cresol Nitrobenzene	o-Cresol Cresol-mixed isomers (cresylic acid)
X	F005 Spent non-halogenated solvents	Benzene 2-Ethoxyethanol Methyl ethyl ketone Pyridine	Carbon disulfide* Isobutyl alcohol 2-Nitropropane Toluene
co	ntaining only one, two, or all three of these mostituents are present in the waste.	e, cyclohexanone, and methanol nonw e constituents. The treatment standard	astewaters are based on the TCLP and apply to spent solvent nonwastevels for these three constituents do not apply when any of the other F001-1
Ha	zardous Debris		
	This shipment contains hazardous debris blasting).	that will be treated to comply with the	alternative treatment standards of 268.45 (e.g., macroencapsulation or a
(TI sub	e definitions of "debris" and "hazard ject to treatment." To determine thes	dous debris" are in 40 CFR 268.2 e, look up the waste code in 268.4	. Per 268.45, hazardous debris must be treated for each "contai 0 and list the regulated hazardous constituents for each code.)
	contaminants subject to treatment for this	debris are identified below:	
The			

	Generator: SPACE EXPLORATION TECH. U.S. EPA I.D. #:CAR000191536
	Profile #:416510-00 Manifest #: <u>000765325JJK</u>
	In accordance with 40 CFR 268.7(a), the underlying hazardous constituents must be addressed in this waste. Per 268.2(i), "underlying hazardous constituent" means any constituent listed in 268.48, Table UTS—Universal Treatment Standard which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. Refer to Form-EZ (attached) for the waste code(s), treatability group, and subcategory applicable to this waste.
	In order to address underlying hazardous constituents in characteristic wastes, please check the appropriate box:
⊐	I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that there are no underlying hazardous constituents reasonably expected to be present in this waste.
⊐	I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that underlying hazardous constituents are present in this waste. The underlying hazardous constituents are identified as follows:
	- mountain
[he	e determination of underlying hazardous constituents was based on:
ם	Generator's knowledge of the waste
٦	Analysis
	I certify that I personally have examined and am familiar with the waste through analysis and testing, or through knowledge of the waste to support this certification. I certify that as an authorized representative of the generator named above, all the information submitted in this notification is true and correct to the best of my knowledge.
<u>A</u>	raceli Rodriguer De B. 125/09
: III	nted Name Signature Date

#### List of Underlying Hazardous Constituents 40 CFR 268.48

Circle or otherwise identify the under	rlying hazardous constituents present in	the waste:	
Organic Constituent	Organic Constituent	Organic Constituent	Organic Constituent
A2213	2-Chlorophenol	Ethyl acetate	Oxamyl
Acenaphthylene	3-Chloropropylene	Ethyl benzene	Parathion
Acenaphthene	Chrysene	Ethyl cyanide/Propanenitrile	Total PCBs(sum of all isomers, or all
Aroclors)			
Acetone	o-Cresol	Ethyl ether	Pebulate
Acetonitrile	m-Cresol	bis(2-Ethylhexyl)phthalate	Pentachlorobenzene
Acetophenone	p-Cresol	Ethyl methacrylate	PeCDDs(All Pentachlorodibenzo-p-dioxit
2-Acetylaminofluorene	m-Cumenyl methylcarbamate	Ethylene oxide	PeCDFs(All Pentachlorodibenzofurans)
Acrolein Acrylamide	Cyclohexanone	Famphur	Pentachloroethane
Acrylonitrile	o,p'-DDD p,p'-DDD	Fluoranthene Fluorene	Pentachloronitrobenzene
Aldicarb sulfone	o,p'-DDE	Formetanate hydrochloride	Pentachlorophenol Phenacetin
Aldrin	p,p'-DDE	Formparanate	Phenanthrene
4-Aminobiphenyl	o,p'-DDT	Heptachlor	PhenoI
Aniline	p,p'-DDT	Heptachlor epoxide	o-Phenylenediamine
Anthracene	Dibenz(a,h)anthracene	Hexachlorobenzene	Phorate
Aramite	Dibenz(a,e)pyrene	Hexachlorobutadiene	Phthalic acid
alpha-BHC	1,2-Dibromo-3-chloropropane	Hexachlorocyclopentadiene	Phthalic anhydride
beta-BHC	1,2-Dibromoethane/Ethylene dibromide	HxCDDs(All Hexachlorodibenzo-p-dioxins	
delta-BHC	Dibromomethane	HxCDFs(All Hexachlorodibenzofurans)	Physostigmine salicylate
gamma-BHC	m-Dichlorobenzene	Hexachloroethane	Promecarb
Barban	o-Dichlorobenzene	Hexachloropropylene	Pronamide
Bendiocarb	p-Dichlorobenzene	Indeno(1,2,3-c,d)pyrene	Propham
Bendiocarb phenol	Dichlorodifluoromethane 1,1-Dichloroethane	Iodomethane	Propoxur
Benomyl Benzene	1,2-Dichloroethane	Isobutyl alcohol	Prosulfocarb
Benz(a)anthracene	1,1-Dichloroethylene	Isodrin Isolan	Pyrene Pyridine
Benzal chloride	trans-1,2-Dichloroethylene	Isosafrole	Safrole
Benzo(b)fluoranthene	2,4-Dichlorophenol	Kepone	Silvex/2,4,5-TP
Benzo(k)fluoranthene	2,6-Dichlorophenol	Methacrylonitrile	1,2,4,5-Tetrachlorobenzene
Benzo(g,h,i)perylene	2,4-Dichlorophenoxyacetic acid/2,4-D	Methanol	TCDDs(All Tetrachlorodibenzo-p-dioxins
Benzo(a)pyrene	1,2-Dichloropropane	Methapyrilene	TCDFs(All Tetrachlorodibenzofurans)
Bromodichloromethane	cis-1,3-Dichloropropylene	Methiocarb	1,1,1,2-Tetrachloroethane
Bromomethane/Methyl bromide	trans-1,3-Dichloropropylene	Methomyl	1,1,2,2-Tetrachloroethane
4-Bromophenyl phenyl ether	Dieldrin	Methoxychlor	Tetrachloroethylene
n-Butyl alcohol	Diethylene glycol, dicarbamate		etrachlorophenol
Butylate	Diethyl phthalate	4,4-Methylene-bis(2-chloroaniline)	Thiodicarb
Butyl benzyl phthalate	p-Dimethylaminoazobenzene 2,4-Dimethyl phenol	Methylene chloride	Thiophanate-methyl
2-sec-Butyl-4,6-dinitrophenol/Dinoseb Carbaryl	Dimethyl phthalate	Methyl ethyl ketone Methyl isobutyl ketone	Tirpate Toluene
Carbenzadim	Dimetilan	Methyl methacrylate	Toxaphene
Carbofuran	Di-n-butyl phthalate	Methyl methansulfonate	Triallate
Carbofuran phenol	1.4-Dinitrobenzene	Methyl parathion	Tribromomethane/Bromoform
Carbon disulfide	4.6-Dinitro-o-cresol	Metolcarb	2,4,6-Tribromophenol
Carbon tetrachloride	2,4-Dinitrophenol	Mexacarbate	1,2,4-Trichlorobenzene
Carbosulfan	2,4-Dinitrotoluene	Molinate	1,1,1-Trichloroethane
Chlordane (alpha and gamma isomers)	2,6-Dinitrotoluene	Naphthalene	1,1,2-Trichloroethane
p-Chloroaniline	Di-n-octyl phthalate	2-Naphthylamine	Trichloroethylene
Chlorobenzene	Di-n-propylnitrosamine	o-Nitroaniline	Trichloromonofluoromethane
Chlorobenzilate	1,4-Dioxane	p-Nitroaniline	2,4,5-Trichlorophenol
2-Chloro-1,3-butadiene	Diphenylamine	Nitrobenzene	2,4,6-Trichlorophenol
Chloroothonomethane	Diphenylnitrosamine	5-Nitro-o-toluidine	2,4,5-Trichlorophenoxyacetic acid/2,4,5-T
Chloroethane bis(2-Chloroethoxy)methane	1,2-Diphenylhydrazine Disulfoton	o-Nitrophenol	1,2,3-Trichloropropane
bis(2-Chloroethyl)ether	Distribution Dithiocarbamates (total)	<i>p</i> -Nitrophenol N-Nitrosodiethylamine	1,1,2-Trichloro-1,2,2-trifluoroethane Triethylamine
Chloroform	Endosulfan I	N-Nitrosodimethylamine	tris-(2,3-Dibromopropyl)phosphate
bis(2-Chloroisopropyl)ether	Endosulfan II	N-Nitroso-di- <i>n</i> -butylamine	Vernolate
p-Chloro-m-cresol	Endosulfan sulfate	N-Nitrosomethylethylamine	Vinyl chloride
2-Chloroethyl vinyl ether	Endrin	N-Nitrosomorpholine	Xylenes-mixed isomers
Chloromethane/Methyl chloride	Endrin aldehyde	N-Nitrosopiperidine	(sum of o-,m-, and p-xylene
concentrations)	•		( )
2-Chloronaphthalene	EPTC	N-Nitrosopyrrolidine	
Inogranic Constituent	Inorganic Constituent	Inorganic Constituent	Inorganic Constituent
Antimony	a	Lead	Silver
	Cadmium		
Arsenic	Chromium (Total)	Mercury-Nonwastewater from Retort	Sulfides
Arsenic Barium Beryllium			



## Pacific Resource Recovery

3150 East Pico Boulevard, Los Angeles, CA 90023 Phone (800) 499-7145 Fax (213) 780-0078

#### LAND DISPOSAL RESTRICTION NOTIFICATION

177	
2	

This notification form shall be completed by the generator and shall accompany each shipment of restricted waste subject to the Land Disposal Restrictions (40 CFR 268 Subpart C).

- ➤ Complete all information in Section I.
- > Check mark all appropriate Regulated Constituents in Section II, additional applicable Sections and/or complete Section III.
- > Sign and date Section IV.

SECTION	Notes of the economics	3.85			o se se es estado de se			
GENERATOR'S NAM	E SPA	cex						
EPA I.D. NUMBER	CAR	200019	1536	2				
MANIFEST NUMBER	000	765383	3					
TREATABILITY GRO	JP	(Check one)	₩ Wastewate	er	☐ Non-Waster	water		
HAZARDOUS DEBRI	s		☐ Yes		☑ No			
EPA HAZARDOUS W	ASTE CODE(S) -							
0001 FOU?	005							
	***************************************							
				***				
There are underly	There are no underlying hazardous constituents of concern, or  There are underlying hazardous constituents of concern which do not meet the treatment standards of 40 CFR 268.48, Table UTS – Universal Treatment Standards (see Section II).							
I have used the following to make the above determination:  Knowledge of the waste producing process, raw materials used and reaction products, or  Results of analysis for the constituents in Table UTS.								
Waste analysis data attached?								
NON-RCRA WASTE Effective 1/31/96 – Pursuant to Section 2517 aqueous and solid waste Land Disposal Restriction	9.6 of the Health and Sa containing organics has	been repealed from	(Check all		11a 🔾	11b 🗆 11c	□ 11d	

#### UNIVERSAL TREATMENT STANDARDS

#### **SECTION II**

The Underlying Hazardous Constituents must be identified for waste streams which carry the EPA Waste Codes F001—F005, F039, D001 (only D001 not treated by RORGS; CMBST or POLYM), D005—D043 (only D005—D043 if treated in Non-CWA, Non-CWA equivalent or Non-SDWA facilities).

The wastes identified on the aforementioned manifest document number and bearing the EPA Hazardous Waste Number(s) identified in Section I are subject to the Land Disposal Restrictions of 40 CFR 268 Subpart C. The wastes do not meet the applicable treatment standards specified in 40 CFR 268 Subpart D or exceeds the applicable prohibition levels specified in 40 CFR 268.32 (California list wastes) or RCRA Section 3004(d). In compliance with the requirements of 40 CFR 268.7 and 268.9 we are indicating below the applicable constituents of concern.

	40 CF	R 268	.48 TABL	E UTS – UNIVERS	AL TRE	ATME		DARDS (Continued	<del>(1)</del>		
Regulated constituent — common asme	CAS¹ HO.	Wastewaler standard saccentration in mg/2	Non-wasiewaler etandard concen- tration in mg/kg <sup>2</sup> ualese noted as "mg/l YGLP"	Regulated constituent — common name	CAS <sup>1</sup> HD,	Wasiawater standard concentration in mg/ <sup>2</sup>	Hos-wastewater atendard concen- tration in mg/kg <sup>3</sup> unless noted as "mg/l TCLP"	Regulated constituent — common name	CAS¹ NO.	Wassigwalar slamdard concentration in mag/2	Non-wastewate stendard concer tration in mg/rg unless noted as "mg/l TCLP"
☐ Acenaphthylene	208-96-8	0.059	3.4	@m-Dichlorobenzena	541-73-1	- <del></del>	6	Op-Nitroaniline	100-01-6	0.028	28
Acenaphihens	63-32-9	0.059	3.4	O-Dichlorobenzene	95-50-1	0.088	6	□ o-Nitroaniline	88-74-4	0.27	14
Acetone	67-64-1	0.28 5.6	160	Op-Dichterobenzene ODichterodiffupromethane	106-46-7 75-71-8	0.090	7.2	☐ Nitrobenzene ☐ 5-Nitro-o-toluidine	98-95-3 99-55-8	0.068	14 28
Acetonitrile  Acetophenone	75-05-8 96-86-2	0.010	9.7	1.1-Dichlorosthane	75-34-3	0.059	6	□o-Nitrophenoi	88-75-5	0.32	13
12-Acetylaminofluorene	53-96-3	0.059	140	1.2-Dichlorosthane	107-06-2	0.21	6	□g-Nitrophenol	100-02-7	0.12	29
□Acrolein	107-02-8	0.29	NA	1.1-Dichloroethylene	75-34-4	0.025	6	□ N-Nitrosodiethylamine	55-18-5	0.40	28
□Aćrylamide	79-06-1	19	23	Otrans-1,2-Dichloroethylene	156-60-5	0.054	30	□ N-Nitrosodimethylamine	62-75-9	0.40	2.3
C Acrylonitrile	107-13-1	0.24	84	□2,4-Dichlorophenol	120-83-2	0.044	14	□ N-Nitroso-di-n-builyamine	924-16-3	0.40	17
□Aldrin	309-00-2	0.021	0.066	□2,6-Dichlorophenol	87-65-0	0.044	14	☐ N-Nitrosomethylethylamine	10595-95-6	0.40	2.3
□4-Aminobiphenyl	92-67-1	0.13	NA .	1.2-Dichloropropane	78-87-5	0.85	18	□ N-Nitrosomorpholine	59-89-2	0.40	2,3
□ Aniline □ Anthracene	62-53-3 120-12-7	0.81	14 3.4	☐cts-1,3-Dichloropropylene ☐trans-1,3-Dichloropropylene	10061-01-5	0.036	18 18	ON-Nitrosopiperidine ON-Nitrosopyrrolidine	100-75-4 930-55-2	0.013	35
☐Aramite	140-57-8	0.059	NA NA	CiDisidrin	60-57-1	0.036	0.13	O Parathion	56-38-2	0.013	35 4.6
□alpha-8HC	319-84-6	0.00014	0.056	Diethyl phthalate	84-66-2	0.20	28	☐Pentachlorobenzene	608-93-5	0.055	10
□beta-BHC	319-85-7	0.00014	0.066	p-Dimethylaminoazobenzene	60-11-7	0.13	NA	☐ Pentachtorodibenzo-furans	NA	0.000035	0.001
□delta-BHC	319-85-8	0.023	0.066	Q2,4-Dimethyl phenol	105-67-9	0.035	14	□Pentachlorodibenzo-p-dioxins	NA.	0.000063	0.001
□gamma-BHC	58-89-9	0.0017	0.066	□ Dimethyl phthalate	131-11-3	0.047	28	☐ Pentachioroethane	76-01-7	0.055	6
☐ Benz(a) anthracene	56-55-3	0.059	3.4	ODI-n-bulyl phthalate	84-74-2	0.057	28	Pentachtoronitrobenzene	82-68-8	0.055	4.8
O Benzal chloride	98-87-3	0.055	6.0	1,4-Dinitrobenzene	100-25-4	0.32	2.3	O Pentachlorophenol	87-86-5	0.089	7.4
□ Benzene □ Benzo(a)pyrene	71-43-2 50-32-8	0.14 0.061	10 3.4	☐4,6-Dinitro-o-cresol ☐2,4-Dinitrophenol	534-52-1 51-28-5	0.28	160 160	□ Phenacetin □ Phenanthrens	62-44-2 85-01-8	0.081	16 5.6
☐ Benzo(b)fluoranthene	205-99-2	0.001	5.8	☐2,4-Dinitrololuene	121-14-2	0.12	140	□ Phanoi	108-95-2	0.039	6.2
☐ Benzo(g,h,i) perylene	191-24-2	0.0055	1.8	22,6-Dinitrotoluana	606-20-2	0.55	28	☐ Phorate	298-02-2	0.033	4.6
☐ Benzo(k)tluoranthens	207-08-9	0.11	6.8	□DI-n-octyl phthalate	117-84-0	0.017	28	☐ Phthalic acid	100-21-0	0.055	28
🗆 bis-(2-Chioroethoxy) methane	111-91-1	0.036	7.2	Di-n-propylakrosamine	621-64-7	0.40	14	CI Phthalic anhydride	85-44-9	0.055	28
Ubis-(2-Chioroathyl) ethar	111-44-4	0.033	6.0	ODiphenylamine	122-39-4	0.92	13	□ Pronamide	23950-58-5	0.093	1.5
Obis-(Chlorolsopropyi) einer	108-60-1	0.055	7.2	☐1,2-Diphenylhydrazine	122-66-7	0.087	NA NA	O Propanenitrile (Ethyl cyanide)	107-12-0	0,24	360
Obis-(Ethylhexyl) phthalate OBromodichloromethane	117-81-7 75-27-4	0.28 0.35	28 15	☐ Diphenyinitrosamine ☐ 1,4-Dioxane	86-30-5 123-91-1	0.92 NA	13 170	OPyrene :	129-00-0	0.067 0.014	8.2 16
OBromomethane (methyl	13.21.4	0.00	- 13	□p-Dimethylaminoazobenzene	60-11-7	0.13	NA NA	USafrole USafrole	94-59-7	0.014	22
promide)	74-83-9	0.11	15	Disulfoton	298-04-4	0.017	6.2	☐Silvex (2,4,5·7P)	93-72-1	0.72	7.9
4-Bromophenyl phenyl ether	101-55-3	0.055	15	QEndosullan I	939-98-8	0.023	0.056	Q2,4,5-T	93-76-5	0.72	7.9
Db-Butyl alcohol	71-36-3	5.6	2.6	□Endosulfan II	33213-6-5	0.029	0.13	🗆 1,2,4,5-Tetrachlorobenzens	95-94-3	0.055	14
Butyl benzyl phthalate  2-sec-Butyl-4,6-dinitrophenol	85-68-7	0.017	28	ClEndosullari sullate	1-31-07-8	0.029	0.13	☐ Tetrachlorodibenzo-furans	NA	0.000063	
dinoseb	88-85-7	0.066	2.5	QEndrin	72-20-8	0.0028	0.13	O Tetrachiorodibenzo-p-diexins	NA.	0.000063	
☐ Carbon disullide	75-15-0	3.8	4.8 TCLP	□Endrin aldehyde □Ethyl acetate	7421-93-4 141-78-5	0.025	0.13 33	1.1.2-Tetrachioroethane	630-20-6 79-34-6	0.057	6.0
Carbon tetrachioride	56-23-5	0.057	6.0	DEthyl benzene	100-41-4	0.057	10	☐ Tetrachloroethylene	127-18-4	0.057 0.056	6.0
□ Chlordane (ziphz & gamma isomers)	57-74-9	0.0033	0.26	DEthyl ether	60-29-7	0.12	160	C12.3,4,6-Tetrachlorophenol	58-90-2	0.030	7.4
Op-Chloroanillas	105-47-8	0.46	16	□Ethyl methacrylate	97-63-2	0.14	160	AToluene	108-88-3	0.080	10
Ochlorobenzene	108-90-7	0.057	6.0	☐Ethylene oxide	75-21-8	0.12	NA	🗅 Toxaphene	8001-35-2	0.0095	2.6
□ Chiorobenzilate	510-15-6	0,10	NA	Ofamphur	52-85-7	0.017	15	OTribromomethane (bromoform	75-25-2	0.53	15
2-Chloro-1,3-butadiene	126-99-8	0.057	0.28	Officeranthene	206-44-0		3.4	1,2,4-Trichlorobenzene	120-82-1	0,055	19
□ Chlorodibromomethans	124-48-1	0.057	15	□ Fluorene □ Heptachlor	86-73-7 76-44-8	0,059	3.4 0.066	1.1,1-Trichloroethane	71-55-6 79-00-5	0.054	6.0
□Chloroethane □Chloroform	75-00-3 67-66-3	0.27 0.046	6.0 6.0	OHeptachlor epoxide	1024-57-3	0.016	0.066	O Trichloroethylene	79-01-6	0.054	6.0 6.0
Op-Chloro-m-cresoi	59-50-7	0.018	14	□Hexachlorobenzene	118-74-1	0.055	10	OTrichioromonofluoromethane	75-69-4	0.020	30
□2-Chloroethyl vlnyl ether	110-75-8	0.062	NA NA	☐ Hexachlorobutadiene	87-68-3	0.055	5.6	□2,4,5-Trichlorophenol	95-95-4	0.18	7.4
□Chloromethane (methyl				□Hexachlorodibenzo-furans	NA	0.000063	0.001	2.4,6-Trichiorophenol	88-06-2	0.035	7.4
chloride)	74-87-3	0.19	30	Hexachlorodibenzo-p-dioxins	NA	0.000063	0.001	1,2,3-Trichloropropane	96-18-4	0.85	30
2-Chioronaphthalene	91-8-7	0.055	5.6	☐ Hexachlorocyclopentadiene	77-47-4	0.057	2.4	1,1,2-Trichloro-1,2,2- trifluoroethane	76-13-1	0.057	30
2-Chlorophenol 3-Chloropropylane	95-57-8 107-05-1	0.044	5.7 30	☐ Hexachloroethane ☐ Hexachloropropylene	67-72-1 1888-71-7	0.055	30 30	□Vinyl chloride	75-01-4	0.057	6.0
OChrysene	218-01-9	0.059	3.4	□Indena (1.2.3-c.d)pyrene	193-39-5	0.0055	3.4	(Xylenes (total)	1330-20-7	0.32	30
□p-Cresol	106-44-5	0.77	5.6	Olodomethane	74-88-4	0.19	65	O Total PCBs	1336-36-3	0.1	10
□m-Cresol	108-39-4	0,77	5.6	Disobutyl alcohol	78-83-1	5.6	170	<b>□</b> Antimony	7440-36-0	1.9	0.07 TCL
□o-Cresol	95-48-7	0.11	5.6	Olsodrin	465-73-6	0.021	0.066	□Arsenic	7440-38-2	1,4	5.0 TCL
□ Cyclohexanone	108-94-1	0.36	0.75 TCLP	□isosairole	120-58-1	0.081	2.6	□Barlum	7440-39-3	1.2	21 TCLP
□2-4-Dichtorophenoxyacetic	04.75 7	0.70	., ]	□ Kepone	143-50-8	0.0011	0.13	☐ Beryllium	7440-41-7	0.82	0.02 TCL
acid (2,4-D) □e,p'-DDD	94-75-7 53-19-0	0.72 0.023	10 0.087	☐ Methacrylonitrile	126-98-7	0.24	84	Cadmium	7440:43-9	0.69	0.2 TCL
⊒0,p'-000 □p,p'-000	72-54-8	0.023	0.087	□ Methanol	67-56-1	5.6	0.75 TCLP	OCumida (total)	7440-47-3	2.77	0.85 TCL
□0,p'-00£	3424-82-6	0.023	0.087	☐ Methapyrilene	91-80-5	0.081	1,5	☐Cyanide (total) ☐Cyanide (amenable)	57-12-5 57-12-5	1.2 0.86	590°
□ρ,ρ'•00E	72-55-9	0.031	0.087	Methoxychior	72-43-5	0.25	0.18	Offuoride	16964-48-8	35	NA NA
Ĵo.p'-DDT	789-02-6	0.0039	0,087	3-Methylchioanthrene 4,4-Methylene-bis-	56-49-5	0.0055	15	OLead	7439-92-1	0.69	0.75 TCL
700-′0,q□	50-29-3	0.0039	0.087	(2-chloroanlline)	101-14-4	0,50	30	Mercury - NWW from Relort	7439-97-6	0.15	0.20 TCL
Dibenzo(a,e)pyrene	192-65-4	0.061	NA	Methylene chloride	75-09-2	0,089	30	Mercury - all others	7439-97-6		0.025 TCL
□Dibenzo(a,h)anIhracene	53-70-3	0.055	8.2	Methyl ethyl ketone	78-93-3	0.28	36	□Nickel	7440-02-0	3,98	13.6 TCL
□(rls-(2,3-D)bromopropyl) phosphate	126-72-7	0.11	0.10	□ Methyl Isobutyl ketone	108-10-1	0.14	33	□ Selenium³	7782-49-2	0.82	5.7 TCL
1,2-Olbromo-3-Chloropropane	96-12-8	0.11	15	Methyl methacrylate	80-62-6	0.14	160	□ Silver	7440-22-4	0.43	0.11 TCL
1,2-Dibromoethane (ethylene	70 16 4			Methyl methansulfonate	66-27-3	0.018	NA .	Sulfide	8496-25-8	1/4.0	NA
dibromide)	105-93-4	0.028	15	□ Methyl Parathion □ Naphthalene	298-00-0 91-20-3	0.014	4.6	O Thaillium	7440-28-0	<del></del>	0.20 TCL
Dibromomethane	74-95-3	0.11	15			}	5.6	□Vanadlum'	7440-62-2		1,6 TCLI
20101011011ctitatio	17000	<del></del>	t	□2-Naphthylamine	91-59-8	0.52	l NA	© Zinc³	7440-66-6	2.61	4.3 TCL

	40 CFR 268.48 TABLE UTS - UNIVERSAL TREATMENT STANDARDS (Continued)
¹CAS r salts a	means Chemical Abstract Services. When the waste code and/or regulated constituents are described as a combination of a chemical with its nd/or esters, the CAS number is given for the parent compound only.
	entration standards for wastewaters are expressed in mg/l are based on analysis of composite samples.
upon ir based i	of for Cyanides (Total and Amenable) the non-wastewater treatment standards expressed as a concentration were established, in part, based incineration in units operated in accordance with the technical requirements of 40 CFR part 264, subpart 0 or 40 CFR part 265, subpart 0, or upon combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may comply with these ents standards according to provisions in 40 CFR 268.40(d). All concentration standards for nonwastewaters are based on analysis of grabuses.
10 gran	Cyanides (Total) and Cyanides (Amenable) for non-wastewaters are to be analyzed using Method 9010 or 9012, found in "Test Methods for ting Solld Waste, Physical/Chemical Methods", EPA Publication SW-846, as incorporated by reference in 40 CFR 260.11, with a sample size of an additional time of one hour and 15 minutes.
<sup>5</sup> These	constituents are not "underlying hazardous constituents" in characteristic wastes, according to the definition at §268.2 (i).
	en August 26, 1996, and August 26, 1997, these constituents are not "underlying hazardous constituents" as defined at §268.2 (i) of this Part.   A means not applicable.
Pleas	e complete as applicable:
Waste on the	s with organic constituents having treatment standards expressed as concentration levels based in whole or in part analytical detection limit alternative specified in §268.40(d).
	I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the non-wastewater organic constituents have been treated by combustion units as specified in 268.42. Table 1.1 have been unable to detect the non-wastewater organic constituents, despite having used best good-faith efforts to analyze for such constituents. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
Wastes Proced	s with treatment standards expressed as concentrations in the waste extract Toxicity Characteristic Leaching dure (TCLP).
	I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
	Alternative Treatment Standard Lab Pack
(****	Manifest Line No.
	I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes that have not been excluded under Appendix IV to 40 CFR Part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a lalse certification, including the possibility of fine or imprisonment.
<u> </u>	I hereby certify under penalty of law that there are no PCBs (polychlorinated biphenyls) contained in the oil waste being manifested to Pacific Resource Recovery. I also understand that a sample of the load will be retained and that the generator will be responsible for the clean-up of contaminated equipment, tanks, etc. if PCBs are present in the waste.
Benzen For Cher ONLY:	ne NESHAP Control Requirement: nical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRATSDFs handling wastes subject to 40 CFR 61 subpart FF
	This waste is a "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR 61 Subpart FF.
	Manifest Line No.
Californ	ola List Wastes:
Ö	Liquid hazardous wastes having a pH less than or equal to 2.0
	Liquid hazardous wastes containing PCBs at a concentration greater than or equal to 50 ppm
<u> </u>	Liquid hazardous wastes that contain HOCs in total concentration greater than or equal to 1000 mg/l Nonliquid hazardous wastes containing HOCs in total concentration greater than or equal to 1000 mg/kg
ō	Free (amenable to chlorination) cyanides greater than or equal to 1000 mg/l
	One or more of the following metals greater than or equal to the following:
	Arsenic and/or compounds: 500 mg/l
	Cadmium and/or compounds: 100 mg/l Chromium and/or compounds: 500 mg/l
	Lead and/or compounds: 500 mg/i Mercury and/or compounds: 20 mg/i
	Nickel and/or compounds: 134 mg/l
	Selenium and/or compounds: 100 mg/l Thallium and/or compounds: 130 mg/l



# Pacific Resource Recovery

3150 East Pico Boulevard, Los Angeles, CA 90023 Phone (800) 499-7145 Fax (213) 780-0078

## ADDITIONAL RESTRICTED WASTE IDENTIFICATION/ TREATMENT STANDARDS AND CERTIFICATION FORM

SEGMONIA			and the second				
Complete Section III if the restricted wastes (i.e., EPA Hazardous Waste Code) as listed in Section I do not meet the applicable treatment standards in 40 CFR 268.40 (Treatment Standards for Hazardous Wastes) and have not been identified as required in Section II.							
EPA Hazardous Waste Code	Subcategory (if applicable)	Appropriate Treatment Standard	Alternative Treatment Technology (Debris)				
			Ĭ.				
	•						
Processor control on the property of the control of							
A PARTIE OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF							

OF OF OVER 1991

	en reini a (1 m² )
SECTIONAL PROPERTY OF THE PROP	
I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.	,
Company Name: SPACES	
Authorized Signature: WMWAtty ON BEHALF DE SPACEX	
Printed Name: VIZUINA ALEJANDEZ	
Date: 8/13/09	
NOT SEN LOCAL DE LA SEN	Page.

#### Siemens Water Technologies Corp.

#### LAND DISPOSAL RESTRICTION NOTIFICATION FORM

Pursuant to CCR Title 22, Section 66268.7(40 CFR 268.7(a), I hereby notify that this waste shipment contains one or more of the following wastes restricted under the land disposal restrictions for which applicable treatment standards are set forth in CCR Title 22, Section 66268.40 (40 CFR 268.40)

Manifest Num# 000765195JJK Generator Name: SPACE EXPLORATION EPA# CAR000191536								
RCRA HAZARDOUS			EEXPLO	CATION	EPA# CAR000191536			
U.S.F. PROFILE NUMBER/ MANIFEST LINE ITEM NUMBER	List all D, F, K, U & P Codes	Subcategory (IF ANY)	f ·	NATER*/ TEWATER NWW	California List ** Per CCR Title 22, Section 66268.32	Hazardous Debris Subject To CCR Title 22, Sec 66268.45		
2)35072847B	2)35072847B							
					For:			
					☐ For:			
					F039 WASTE STREAM	(S: (check one)		
There are no un	derlying hazard	ous constituents (L	JHCs) prese	ent				
66268.48					t meet treatment standards	per CCR Title 22, Section		
			opriate cons	tituent(s) pr	esent in the waste stream)			
DETERMINATION		•						
Knowledge of the	e process gene	rating the waste ar	nd the raw m	naterials use	ed and the reaction products	<b>;</b>		
☐ Results from ana	lytical testing		Ana	lytical result	s attached YES N	0		
- TERM DEFINITIONS:  * WASTEWATER _ = per CCR Title 22, Section 66260.10, WASTE THAT CONTAINS LESS THAN 1% BY WEIGHT TOTAL TOXIC ORGANICS (TOCs) AND 1% BY WEIGHT TOTAL SUSPENDED SOLIDS (TSS).								
*CALIFORNIA LIST= THE FOLLOWING HAZARDOUS WASTES ARE PROHIBITED FROM LAND DISPOSAL: per CCR Title 22, Section 66268.32  Liquid hazardous waste with a pH less than or equal to 2.0  Liquid hazardous waste containing PCB's at concentration of greater than or equal to 50 ppm  Liquid hazardous waste, including free liquids associated with any solids/sludge, containing free cyanide at concentrations greater than or equal to 1,000 mg/L								
Liquid hazardous following:	waste, including t	ree liquids associate	d with any so	lids/sludge, c	ontaining metals at concentration	ons greater than or equal to the		
ARSENIC	500 mg/L		MERCURY	<u> </u>	20 mg/L			
CADMIUM CHROMIUM	100 mg/L 500 mg/L		NICKEL SELENIUM		134 mg/L 100 mg/L			
LEAD	500 mg/L		THALLIUN		130 mg/L			
<ul> <li>Liquid hazardous</li> </ul>	waste, that conta	ins HOC's in total cor containing HOC's in	ncentration gr	eater than or	equal to 1,000 mg/L			
<ul> <li>Non-liquid RCRA hazardous waste containing HOC's in total concentration greater than or equal to 1,000 mg/L</li> <li>CERTIFICATION</li> <li>I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification. I believe that the information I have submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment</li> </ul>								
SPACE EXPLO	RATION			1 = 9		03/11/09		
COMPANY NAME AUTHORIZED SIGNATURE DATE								



## Pacific Resource Recovery

3150 East Pico Boulevard, Los Angeles, CA 90023 Phone (800) 499-7145 Fax (213) 780-0078

#### LAND DISPOSAL RESTRICTION NOTIFICATION

Manife Line #	st Approval #	Manifest Line # Approval #	Manifest Line # Approval #
	28060 111		
	· · · · · · · · · · · · · · · · · · ·		

This notification form shall be completed by the generator and shall accompany each shipment of restricted waste subject to the Land Disposal Restrictions (40 CFR 268 Subpart C).

- ➤ Complete all information in Section I.
- > Check mark all appropriate Regulated Constituents in Section II, additional applicable Sections and/or complete Section III.
- > Sign and date Section IV.

SECTION	NIE			9.7		<b>建设建设</b>		a and	
GENERAT	OR'S NAME	SPA	c.ex		·			1790	
EPA I.D. N	UMBER	CAROOO191536							
MANIFEST	NUMBER	00076	51261	6					
TREATABILITY GROUP		1	(Check one)	☐ Wastewater		Non-Wastewater			
HAZARDOUS DEBRIS			**************************************	☐ Yes		☐ No			
EPA HAZA	RDOUS WAST	E CODE(S) -							
D001	F003	F005			-				
					· · · · · · · · · · · · · · · · · · ·				
There a	There are no underlying hazardous constituents of concern, or  There are underlying hazardous constituents of concern which do not meet the treatment standards of 40 CFR 268.48, Table UTS – Universal Treatment Standards (see Section II).							48, Table	
☑ Knowle	-3								
Waste ana	ılysis data atta	iched?	☐ Yes		No		***************************************		
aqueous and	1/96 Section 25179.6 o. ' solid waste conta	f the Health and Sa	OUD tiety Code, NON-RCF been repealed from its.	7A	l that apply) (28a – 28i)	Olia O	11b 🗆 11c	c 11d	

#### UNIVERSAL TREATMENT STANDARDS

#### SECTIONII

The Underlying Hazardous Constituents must be identified for waste streams which carry the EPA Waste Codes F001—F005, F039, D001 (only D001 not treated by RORGS; CMBST or POLYM), D005—D043 (only D005—D043 if treated in Non-CWA, Non-CWA equivalent or Non-SDWA facilities).

The wastes identified on the aforementioned manifest document number and bearing the EPA Hazardous Waste Number(s) identified in Section I are subject to the Land Disposal Restrictions of 40 CFR 268 Subpart C. The wastes do not meet the applicable treatment standards specified in 40 CFR 268 Subpart D or exceeds the applicable prohibition levels specified in 40 CFR 268.32 (California list wastes) or RCRA Section 3004(d). In compliance with the requirements of 40 CFR 268.7 and 268.9 we are indicating below the applicable constituents of concern.

	70 01	,	Han-wastawater	TE O 10 OMATIV	ME 1111	<del>,</del>	Hos-watthwater	NDARDS (Continued	<u>''</u>	i	L
Regulaled Constituent — Constituen Same	CAS <sup>1</sup> NO.	sissiani	elected coacen- traites to les as mg/l YCLP"	flegsialed canodisant — convice deme	CAS <sup>1</sup> HO.	Westerneter standard concestration to mg/ <sup>2</sup>	titaliani teaccas-	Regulated constituent — commons same	CAS! HO.	Wassleweler standard tea easteller in mg/2	ica-wastewal stratard conce tration in mage raters noted a "mg/l TCLF"
□ Acenaphthylene	208-96-8	0.059	3.4	Om-Dichlorobenzena	541-73-1	0.036	5	🗆 p-Nitroznillne	100-01-6	0.028	28
□Acenaphtheñe	83-32-9	0.059	3.4	Qo-Dichlorobenzens	95-50-1	0.088	5	□o-Nitroanliine	88-74-4	0.27	14
□ Acetone	87-64-1	0.28	160	Op-Dichlorobenzene	106-46-7	0.090	6	UNkrobenzena	98-95-3	0.068	14
Acetonitrite	75-05-8	5,6	1.8	☐ Dichtorodilluoromethans	75-71-8		7.2	□5-Nitro-o-toluidine	99-55-8	0.32	28
Acetophenone	96-86-2	0.010	9.7	11.1-Dichloroethane	75-34-3	0.059	6	Qo-Nitrophenol	88-75-5	0.28	13
2-Acetylaminofluorene	53-96-3	0.059	140	1,2-Olchforoethane	107-06-2	0.21	6	□p-Nitrophenol	100-02-7	0,12	29
☐ Acrolein	107-02-8 79-06-1	0.29	NA 23	1,1-Dichloroethylens	75-34-4	0.025	6	□ N-Nifrosodiethylamine	55-18-5	0.40	28
□ Acrylamide □ Acrylonitrile	107-13-1	19 0,24	84	☐trans-1.2-Dichloroethylene ☐2.4-Dichlorophenoi	156-60-5 120-63-2	0.054 0.044	30 14	ON-Nitrosodimethylamine	62-75-9	0.40	2.3
O'Aldrin	309-00-2	0.021	0.066	Q2,5-Dichlorophenol	87-65-0	0.044	14	□ N-Nitroso-di-n-bullyamine	924-16-3	0.40	17
D4-Aminobiphenyi	92-67-1	0.021	NA AM	1,2-Dichloropropane	78-87-5	0.85	18	GN-Nitrosomethylethylamine GN-Nitrosomorpholine	10595-95-6	0.40	2,3
DAnislae	62-53-3	0.13	14	Ocis-1,3-Dichloropropylene	10061-01-5	0.036	18	ON-Nitrosopheridine	59-89-2 100-75-4	0.40	2.3
□ Anthracène	120-12-7	0.059	3.4	☐trans-1,3-Dichtoropropytene	10061-02-6	0.036	18	ON-Nitrosopyrrolidins	930-55-2	0.013	35
□Aramite	140-57-8	0.36	NA NA	O Dieldrin	50-57-1	0.017	0.13	☐Parathion	56-38-2	0.013 0.014	35 4.6
□alpha-8HC	319-84-6	0.00014	0.066	Ci Diethyl phthalate	84-66-2	0.20	28	Pentachkorobenzene	608-93-5	0.055	10
Qbsta-8HC	319-85-7	0.00014	0.066	Op-Dimelhylaminoazobenzene	60-11-7	0.13	NA NA	O Pentachlorodibenzo-lurans	NA	0.000035	0.001
☐dejta-BHC	319-86-8	0.023	0.066	2.4-Dimethyl phonol	105-57-9	0.036	14	OPentachlorodibenza-p-dioxins	NA.	0.000083	0.001
Qgamma-BHC	58-89-9	0.0017	0.086	ODimethyl phthalate	131-11-3	0.047	28	☐ Pentachiorsethane	76-01-7	0.055	6
OBenz(a)anthracene	56-55-3	0.059	3.4	ODI-n-butyl phthalate	84-74-2	0.057	28	Pentachloronkrobenzene	82-68-8	0.055	4.8
O Benzai chloride	98-87-3	0.055	6.0	1,4-Diaitrobenzana	100-25-4	0.32	2.3	OPentachlorophenol	87-86-5	0.089	7.4
O Benzene	71-43-2	0.14	10	Q4,8-Dialtro-o-cresol	534-52-1	0.28	160	QPhenacelin	62-44-2	0.089	16
☐ Benzo(a)pyrène	50-32-8	0.061	3,4	Q2,4-Dintirophenol	51-28-5	0.12	160	☐ Phénanthrène	85-01-8	0.059	5.6
□ Benzo(b)fluoranihene	205-99-2	0.11	6.8	☐2.4-Dinkrolokuene	121-14-2	0.32	140	Q Phenol	108-95-2	0.039	
□Senzo(g,h,i)perylane	191-24-2	0.0055	1.8	Q2,6-Dinitrotoluses	606-20-2	0.55	28	□ Phorate	298-02-2	0.039	6.2 4.6
☐ Benzo(k)fluoranthane	207-08-9	0.11	6.8	ODi-n-octyl phthalate	117-84-0	0.017	28	□Phthaile acid	100-21-0	0.055	28
Obis-(2-Chloroethoxy) methane	111-91-1	0.036	7.2	DDI-n-propylnitrosamine	621-64-7	0.40	14	□ Phthalic anhydrids	85-44-9	0.055	28
Dais-(2-Chloroathyl) ether	111-44-4	0.033	6,0	ODiphenylamine	122-39-4	0.92	13		23950-58-5	0.093	1,5
Obis-(Chioroisopropyi) ether	108-60-1	0.055	7.2	1,2-Diphanyihydrazine	122-66-7	0.087	NA	Propanentrile (Ethyl cyanide)	107-12-0	0.24	360
Obis-(Etnylhexyl) phthalate	117-81-7	0.28	28	ODiphenyinitrosamine	86-30-6	0.92	13	□Pyrene	129-00-0	0.067	8.2
38remodichloromethane	75-27-4	0.35	15	Q1,4-Dioxane	123-91-1	NA	170	OPyridine .	110-86-1	0.007	16
Bromomethane (methyl	*			Op-Dimethylaminoazobenzene	60-11-7	0.13	NA	☐ Safrole	94-59-7	0.081	22
bromide)	74-83-9	0,11	15	Disulfoton	298-04-4	0.017	5.2	USilvex (2,4,5-7P)	93-72-1	0.72	7,9
24-Bromophenyl phenyl ether	101-55-3	0.055	15	QEndosullán I	939-96-8	0.023	0.066	Q2,4,5-T	93-76-5	0.72	7.9
□ 8-Butyl elcohol	71-36-3	5.6	2.6	□Endosulfan II	33213-6-5	0.029	0.13	1.2,4,5-Tetrachiorobenzene	95-94-3	0.055	14
Distyl benzyl phihalate	85-68-7	0.017	28	□Endosulfan sulfate	1-31-07-8	0.029	0.13	OTerrachlorodibenzo-furans	NA.	0.000063	0.031
2-sec-Butyl-4,6-dinkrophenol			[	□Endrin	72-20-B	0.0028	0,13	☐ Tetrachiorodibenzo-p-dioxins	NA.	0.000063	0.001
dinoseb	88-85-7	0.066	2.5	□ Endrin aldehyde	7421-93-4	0.025	0.13	□1.1.1,2-Tetrachioroethane	630-20-6	0.057	
☐ Carbon disulfide ☐ Carbon tetrachloride	75-15-0	3.8	4.8 TCLP	□ Ethyl acetate	141-78-8	0.34	33	Q1.1.2.2-Tetrachioroethane	79-34-6	0.057	6,0 6,0
	55-23-5	0.057	6,0	☐Ethyl benzene	100-41-4	0.057	10	☐ Tetrachforoethylene	127-18-4	0.058	6.0
Ochlordane (alpha & gamma isomers)	57-74-9	0.0033	0.26	□Ethyl ether	60-29-7	0.12	160	12,3,4,6-Tetrachlorophenol	58-90-2	0.030	7.4
3p-Chioroaniline	106-47-8	0.46	16	OEthyl methacrylate	97-63-2	0.14	160	<b>⊕</b> Toluena	108-88-3	0.080	10
3 Chiorobenzene	108-90-7	0.057	6.0	□Ethylene oxide	75-21-8	0.12	NA	☐ Toxaphene	8001-35-2	0.0095	2.5
1 Chlorobenzilate	510-15-6	0.10	NA	□ Famphur	52-85-7	0.017	15	☐Tribramomethane (bromoform)	75-25-2	0.63	15
12-Chioro-1,3-butadiene	126-99-8	0,057	0.26	□ Fluoranthene	206-44-0	0.068	3.4	☐1,2,4-Trichlorobenzene	120-82-1	0,055	19
3 Chiorodibromomethans	124-48-1	0.057	15	□ Fluorene	86-73-7	0.059	3.4	□1,1,1-Trichlorcethane	71-55-6	0.054	6.0
J Chloroethane	75-00-3	0.27	6,0	Heptachlor	76-44-8	0.0012	0.056	1,1,2-Trichlorgethage	79-00-5	0.054	6.0
3Chloroform	67-66-3	0.D46	6.0	☐Heptachlor epoxide	1024-57-3	0.016	0.066	☐ Trichlorosthylene	79-01-6	0.054	6.0
Ip-Chloro-m-cresol	59-50-7	0.018	14	□Hexachiorobenzene	118-74-1	0.055	10	☐ Trichtoromonofluoromethane	75-69-4	0.020	30
32-Chloraethyl vinyl ether	110-75-8	0.062	NA .	□Hexachlorobutadiene	87-68-3	0.055	5.6	12,4,5-Trichlorophenol	95-95-4	0.18	7.4
3Chloromethane (methyl				Hexachlorodibenzo-furans	NA	0.000063	0.001	Q2.4,6-Trichlorophenol	88-06-2	0.035	7.4
chlorida)	74-87-3	0.19	30	Hexachlorodibenzo-p-dioxins	NA:	0.000063	0,001	1,2,3-Trichloropropane	96-18-4	0.85	30
32-Chloronaphthalene	91-8-7	0.055	5.6	□ Hexachiorocyclopentadlene	77-47-4	0.057	2.4	☐ 1.1.2-Trichloro-1.2.2·		<del></del>	· · · · · · · · · · · · · · · · · · ·
22-Chlorophenol	95-57-8	0.044	5.7	☐ Hexachioroethane	67-72-1	0.055	30	trilluoreethans	76-13-1	0,057	30
33-Chloropropylene	107-05-1	0.036	30	□ Hexachloropropylene	1886-71-7	0.035	30	□Vinyl chloride	75-01-4	0.27	6.0
3Chrysana	218-01-9	0.059	3.4	□indena (1.2,3-c,d)pyrena	193-39-5	0.0055	3,4	☐Xylenes (total)	1330-20-7	0.32	30
2p-Cresol	105-44-5	0.77	5,6	□lodomethane	74-88-4	0.19	65	O Total PCBs	1336-36-3	0.1	10
Im-Cresol	108-39-4	0.77	5.6	Disobutyi alcohol	78-83-1	5.6	170	□Antimony	7440-36-0	1.9	0.07 TCL
Jo-Cresol	95-48-7	0.11	5.6	□lsodria	465-73-6	0.021	0.066	□Arsenic	7440-38-2	1.4	5.0 TCLF
	108-94-1	0.36	0.75 TCLP	□isosafrole	120-58-1	0.081	2.5	Bariom	7440-39-3	1.2	21 TCLP
3 Сусіонехалопе		į	10	☐Kepone	143-50-8	0.0011	0.13	□Beryillum	7440-41-7	0.82	0.02 TCL
12-4-Dichtorophenoxyacetic		A ***		□ 14-4h	126-98-7	0.24	84	□ Cadmium	7440:43-9	0.69	0.2 TCLP
32-4-Dichtorophenoxyacetic acid (2,4-D)	94-75-7	0.72		☐ Methacrylonitrile			A 777 TO 1 A	□Chromlum (total)	7440-47-3	2.77	0.85 TCLF
32-4-Dichtorophenoxyacetic acid (2,4-D) 30,p'-DDD	94-75-7 53-19-0	0.023	0.087	QMethanol	67-56-1	5.6	9.75 TCLP		(440-41-2	2.71	
12-4-Dichtorophenoxyacetic acid (2,4-D) 10.p'-DDD 1p.p'-DDD	94-75-7 53-19-0 72-54-8	0.023 0.023	0.087 0.087		67-56-1 91-80-5	5.6 0.081	9.75 IGLP	CiCyanide (total)	57-12-5	1.2	590*
12-4-Dichtorophenoxyacetic acid (2,4-D) 10.0'-DDD 10.0'-DDD 10.0'-DDE	94-75-7 53-19-0 72-54-8 3424-82-6	0.023 0.023 0.031	0.087 0.087 0.087	QMethanol				Cl Cyanide (total) Cl Cyanide (amenable)			30°
12-4-Dichtorophenoxyacetic acid (2,4-D) 10-p-0DD 10-p-0DD 00-p-0DE 10-p-0DE	94-75-7 53-19-0 72-54-8 3424-82-6 72-55-9	0.023 0.023 0.031 0.031	0.087 0.087 0.087 0.087	☐ Methanol ☐ Methapyrilene	91-80-5	0.081	1,5	□Cyanide (total) □Cyanide (amenable) □Fluoride	57-12-5	1.2	
12-4-Dichtorophenoxyacetic acid (2,4-D) 10-p-DDD 10-p-DDD 10-p-DDE 10-p-DDE 10-p-DDE	94-75-7 53-19-0 72-54-8 3424-82-6 72-55-9 789-02-6	0.023 0.023 0.031 0.031 0.0039	0.087 0.087 0.087 0.087 0.087	☐ Methanol ☐ Methapyrilene ☐ Methapyrilene ☐ Methoxychlor ☐ 3-Methylchloanthrens ☐ 4,4-Methylene-bis-	91-80-5 72-43-5	0.081 0.25	1,5 0.18	☐Cyanide (total) ☐Cyanide (amenable) ☐Fluoride ☐Lead	57-12-5 57-12-5	1.2 0.86	30 <sup>4</sup> NA
12-4-Dichtorophenoxyacetic acid (2,4-D) 10,p-DDD 10,p-DDD 10,p-DDE 10,p-DDE 10,p-DDE 10,p-DDE	94-75-7 53-19-0 72-54-8 3424-82-6 72-55-9 789-02-6 50-29-3	0.023 0.023 0.031 0.031 0.0039 0.0039	0.087 0.087 0.087 0.087 0.087 0.087	☐ Methanol ☐ Methapyrilene ☐ Methapyrilene ☐ Methoxychlor ☐ 3-Methylchloanthrens ☐ 4,4-Methylene-bis- (2-chloroaniline)	91-80-5 72-43-5 56-49-5 101-14-4	0.081 0.25	1,5 0.18	□Cyanide (total) □Cyanide (amenable) □Fluoride	57-12-5 57-12-5 16964-48-8	1.2 0.86 35	30° NA 0.75 TCL
12-4-Dichtorophenoxyacetic acid (2,4-D) 10,9'-DDD 10,9'-DDD 10,9'-DDE 10,9'-DDE 10,9'-DOE 10,9'-DOT 10,9'-DOT	94-75-7 53-19-0 72-54-8 3424-82-6 72-55-9 789-02-6 50-29-3 192-65-4	0.023 0.023 0.031 0.031 0.0039 0.0039 0.0039	0.087 0.087 0.087 0.087 0.087 0.087	☐ Methapyrllene ☐ Methapyrllene ☐ Methoxychlor ☐ 3-Methylchioanthrens ☐ 4.4-Methylane-bis- (2-chioroaniline) ☐ Methylene chloride	91-80-5 72-43-5 56-49-5	0.081 0.25 0.0055	1,5 0.18 15	Clyanide (total) Clyanide (amenable) Fluoride Clead Clead Memury – NWW from Retort ClMemury – all others	57-12-5 57-12-5 16964-48-8 7439-92-1	1.2 0.86 35 0.69	30 <sup>4</sup> NA 0.75 TCL 0.20 TCL
12-4-Dichtorophenoxyacetic acid (2,4-D) 10,9-DDD 10,9-DDD 10,9-DDE 10,9-DDE 10,9-DDE 10,9-DOT 1Dibenzo(a,e)pyrene 1Dibenzo(a,h)anthracene	94-75-7 53-19-0 72-54-8 3424-82-6 72-55-9 789-02-6 50-29-3	0.023 0.023 0.031 0.031 0.0039 0.0039	0.087 0.087 0.087 0.087 0.087 0.087	☐ Methapyrllene ☐ Methapyrllene ☐ Methoxychlor ☐ 3-Methylchloanthrens ☐ 4.4-Methylane-bis- (2-chloroaniline) ☐ Methylene chloride ☐ Methyl ethyl kejone	91-80-5 72-43-5 56-49-5 101-14-4	0.081 0.25 0.0055 0.50	1,5 0.18 15 30	Clyanide (total) Clyanide (amenable) Fluoride Clead Memury – NWW from Retort	57-12-5 57-12-5 16964-48-8 7439-92-1 7439-97-6	1.2 0.86 35 0.69 0.15	30° NA 0.75 TCL 0.20 TCL 0.025 TCL
12-4-Dichtorophenoxyacetic acid (2,4-D) 10,0'-DDD 10,0'-DDD 10,0'-DDE 10,0'-DDE 10,0'-DDE 10,0'-DDF 10,0'-DDT 10,0'-	94-75-7 53-19-0 72-54-8 3424-82-6 72-55-9 789-02-6 50-29-3 192-65-4 53-70-3	0.023 0.023 0.031 0.031 0.0039 0.0039 0.061 0.055	0.087 0.087 0.087 0.087 0.087 0.087 0.087 NA 8.2	☐ Methapyrllene ☐ Methapyrllene ☐ Methoxychlor ☐ 3-Methylchioanthrens ☐ 4.4-Methylane-bis- (2-chioroaniline) ☐ Methylene chloride	91-80-5 72-43-5 56-49-5 101-14-4 75-09-2	0.081 0.25 0.0055 0.50 0.089	1,5 0.18 15 30 30	Clyanide (total) Clyanide (amenable) Fluoride Clead Clead Memury – NWW from Retort ClMemury – all others	57-12-5 57-12-5 16964-48-8 7439-92-1 7439-97-6 7439-97-6 7440-02-0	1.2 0.86 35 0.69 0.15 0.15	30° NA 0.75 TCLI 0.20 TCLI 0.025 TCLI 13.6 TCLF
12-4-Dichtorophenoxyacetic acid (2,4-D) 10,0'-DDD 10,0'-DDD 10,0'-DDE 10,0'-DDE 10,0'-DDE 10,0'-DDE 10,0'-DDT 10,0'-	94-75-7 53-19-0 72-54-8 3424-82-6 72-55-9 789-02-6 50-29-3 192-65-4 53-70-3 126-72-7	0.023 0.023 0.031 0.031 0.0039 0.0039 0.061 0.055	0.087 0.087 0.087 0.087 0.087 0.087 0.087 NA 8.2	☐ Methapyrllene ☐ Methapyrllene ☐ Methoxychlor ☐ 3-Methylchloanthrens ☐ 4.4-Methylane-bis- (2-chloroaniline) ☐ Methylene chloride ☐ Methyl ethyl kejone	91-80-5 72-43-5 56-49-5 101-14-4 75-09-2 78-93-3	0.081 0.25 0.0055 0.50 0.089 0.28	1,5 0.18 15 30 30 36	Clyanide (total) Clyanide (amenable) Fluoride Clead Clead Memury – NWW from Retort Cleacy Mickel	57-12-5 57-12-5 16964-48-8 7439-92-1 7439-97-6 7439-97-6 7440-02-0 7782-49-2	1.2 0.86 35 0.69 0.15 0.15 3.98 0.82	30° NA 0.75 TCLF 0.20 TCLF 0.025 TCLF 13.6 TCLP 5.7 TCLP
12-4-Dichtorophenoxyacetic acid (2,4-D) 10,0-DDD 10,0-DDD 10,0-DDE 10,0-DDE 10,0-DDE 10,0-DDT 11,2-DDT 11,2-DDT 11,2-DDT 11,2-DDT 11,2-DDT 11,2-DDT 11,2-DDT	94-75-7 53-19-0 72-54-8 3424-82-6 72-55-9 789-02-6 50-29-3 192-65-4 53-70-3	0.023 0.023 0.031 0.031 0.0039 0.0039 0.061 0.055	0.087 0.087 0.087 0.087 0.087 0.087 0.087 NA 8.2	☐ Methaporliene ☐ Methapyrliene ☐ Methoxychlor ☐ 3-Methylchloanthrens ☐ (2-chloroaniline) ☐ Methylene chloride ☐ Methyl ethyl ketone ☐ Methyl Isobutyl ketone	91-80-5 72-43-5 56-49-5 101-14-4 75-09-2 78-93-3 108-10-1	0.081 0.25 0.0055 0.50 0.089 0.28 0.14	1,5 0,18 15 30 30 36 33	☐ Cyanide (total) ☐ Cyanide (amenable) ☐ Fluoride ☐ Lead ☐ Memury – NWW from Retort ☐ Mercury – all others ☐ Nickel ☐ Selenlum <sup>4</sup> ☐ Silver	57-12-5 57-12-5 16964-48-8 7439-92-1 7439-97-6 7439-97-6 7440-02-0 7782-49-2 7440-22-4	1.2 0.86 35 0.69 0.15 0.15 0.16 3.98 0.82 0.43	30° NA 0.75 TCLF 0.20 TCLF 0.025 TCLF 13.6 TCLP 5.7 TCLP 0.11 TCLF
12-4-Dichtorophenoxyacetic acid (2,4-D) 10,9'-DDD 10,9'-DDE 10,9'-DDE 10,9'-DDE 10,9'-DDE 10,9'-DOT 11,2-Dibrome-3-Chloropropane 11,2-Dibromo-3-Chloropropane 11,2-Dibromoethane (ethylene	94-75-7 53-19-0 72-54-8 3424-82-6 72-55-9 789-02-6 50-29-3 192-65-4 53-70-3 126-72-7 96-12-6	0.023 0.023 0.031 0.031 0.0039 0.0039 0.061 0.055 0.11	0.087 0.087 0.087 0.087 0.087 0.087 0.087 NA 8.2 0.10	☐ Methanol ☐ Methapyrliene ☐ Methoxychlor ☐ 3-Methylchioamthrens ☐ 4-Methylene-bis- (2-chioroaniline) ☐ Methylene chloride ☐ Methyl erthyl ketone ☐ Methyl isobutyl ketone ☐ Methyl isobutyl ketone ☐ Methyl methacrylate	91-80-5 72-43-5 56-49-5 101-14-4 75-09-2 78-93-3 108-10-1 80-62-6 66-27-3	0.081 0.25 0.0055 0.50 0.089 0.28 0.14 0.14 0.018	1.5 0.18 15 30 30 30 38 33 160 NA	Clyanide (total) Cyanide (amenable) Fluoride Clad Charmery – NWW from Retort Charmery – all others Chickel	57-12-5 57-12-5 16964-48-8 7439-92-1 7439-97-6 7439-97-6 7440-02-0 7782-49-2 7440-22-4 8496-25-8	1.2 0.86 35 0.69 0.15 0.15 0.15 3.98 0.82 0.43	30° NA 0.75 TCLF 0.20 TCLF 0.025 TCLF 13.6 TCLP 5.7 TCLP 0.11 TCLF NA
12-4-Dichtorophenoxyacetic acid (2,4-D) 10.p*-DDD 10.p*-DDD 10.p*-DDE 10.p*-DDE 10.p*-DDT 10.p*-	94-75-7 53-19-0 72-54-8 3424-82-6 72-55-9 789-02-6 50-29-3 192-65-4 53-70-3 126-72-7	0.023 0.023 0.031 0.031 0.0039 0.0039 0.061 0.055	0.087 0.087 0.087 0.087 0.087 0.087 0.087 NA 8.2	☐ Methaporliene ☐ Methapyrliene ☐ Methoxychlor ☐ 3-Methylchioamthrens ☐ (2-chioroaniline) ☐ Methylene chloride ☐ Methyl erthyl ketone ☐ Methyl isobutyl ketone ☐ Methyl isobutyl ketone ☐ Methyl methacrylate ☐ Methyl methacrylate	91-80-5 72-43-5 56-49-5 101-14-4 75-09-2 78-93-3 108-10-1 80-62-6	0.081 0.25 0.0055 0.50 0.089 0.28 0.14 0.14	1.5 0.18 15 30 30 36 33 160	☐ Cyanide (total) ☐ Cyanide (amenable) ☐ Fluoride ☐ Lead ☐ Memury – NWW from Retort ☐ Mercury – all others ☐ Nickel ☐ Selenlum <sup>4</sup> ☐ Silver	57-12-5 57-12-5 16964-48-8 7439-92-1 7439-97-6 7439-97-6 7440-02-0 7782-49-2 7440-22-4	1.2 0.86 35 0.69 0.15 0.15 0.16 3.98 0.82 0.43	30° NA 0.75 TCL; 0.20 TCL; 0.025 TCL; 13.6 TCL; 5.7 TCL; 0.11 TCL;

40 CFR 268.48 TABLE UTS - UNIVERSAL TREATMENT STANDARDS (Continued)
<sup>1</sup> CAS means Chemical Abstract Services. When the waste code and/or regulated constituents are described as a combination of a chemical with its salts and/or esters, the CAS number is given for the parent compound only.
<sup>2</sup> Concentration standards for wastewaters are expressed in mg/l are based on analysis of composite samples.
Except for Cyanides (Total and Amenable) the consumption treatment at a decided and an advantage of the consumption of the cons
based upon combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may comply with these samples.
<sup>4</sup> Both Cyanides (Total) and Cyanides (Amenable) for non-wastewaters are to be analyzed using Method 9010 or 9012, found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846, as incorporated by reference in 40 CFR 260.11, with a sample size of 10 grams and a distillation time of one hour and 15 minutes. <sup>5</sup> These constituents are not "underlying hazardous constituents" in characteristic wastes, according to the definition at §268.2 (i).
Setween August 26, 1996, and August 26, 1997, these constituents are not "underlying hazardous constituents" as defined at §268.2 (i) of this Part.
Note: NA means not applicable.
Please complete as applicable:
Wastes with organic constituents having treatment standards expressed as concentration levels based in whole or in part on the analytical detection limit alternative specified in §268.40(d).
I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the non-wastewater organic constituents have been treated by combustion units as specified in 268.42. Table 1.1 have been unable to detect the non-wastewater organic constituents, despite having used best good-faith efforts to analyze for such constituents. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
Wastes with treatment standards expressed as concentrations in the waste extract Toxicity Characteristic Leaching Procedure (TCLP).
I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
☐ Alternative Treatment Standard Lab Pack
Manifest Line No.
I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes that have not been excluded under Appendix IV to 40 CFR Part 268 and that this lab pack will be sent to a combustion facility in compliance with certification, including the possibility of fine or imprisonment.
i hereby certify under penalty of law that there are no PCBs (polychlorinated biphenyls) contained in the oil waste being manifested to Pacific Resource Recovery. I also understand that a sample of the load will be retained and that the generator will be responsible for the clean-up of contaminated equipment, tanks, etc. if PCBs are present in the waste.
Benzene NESHAP Control Requirement: for Chemical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRA TSDFs handling wastes subject to 40 CFR 61 subpart FF ONLY:
This waste is a "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR 61 Subpart FF.
Manifest Line No.
California List Wastes:
Liquid hazardous wastes having a pH less than or equal to 2.0
Liquid hazardous wastes containing PCBs at a concentration greater than or equal to 50 ppm.
Liquid nazaroous wastes that contain HOCs in total concentration greater than or equal to 1000 — 3
Nonliquid hazardous wastes containing HOCs in total concentration greater than or equal to 1000 mg/kg  Free (amenable to chlorination) cyanides greater than or equal to 1000 mg/l
One or more of the following metals greater than or equal to the following:
Arsenic and/or compounds: 500 mg/l
Cadmium and/or compounds: 100 mg/l
Chromium and/or compounds: 500 mg/l Lead and/or compounds: 500 mg/l
Mercury and/or compounds: 20 mg/l
Nickel and/or compounds: 134 mg/l Selenium and/or compounds: 100 mg/l
Thallium and/or compounds: 130 mg/l



## Pacific Resource Recovery

3150 East Pico Boulevard, Los Angeles, CA 90023 Phone (800) 499-7145 Fax (213) 780-0078

#### ADDITIONAL RESTRICTED WASTE IDENTIFICATION/ TREATMENT STANDARDS AND CERTIFICATION FORM

ester in this						
the applicable tre	Complete Section III if the restricted wastes (i.e., EPA Hazardous Waste Code) as listed in Section I do not meet the applicable treatment standards in 40 CFR 268.40 (Treatment Standards for Hazardous Wastes) and have not been identified as required in Section II.					
EPA Hazardous Waste Code	Subcategory (if applicable)	Appropriate Treatment Standard	Alternative Treatment Technology (Debris)			
<del> </del>						
			<u> </u>			
			·			
V						

hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.
Company Name: SPACES
Authorized Signature: MAMALLIS ON BEHALF OF SPACEX
Printed Name: VIRBINIA AIEJANDIEZ
Date: 1-22-09



Ger	nerator:	SPACE EXPLO	RATION TECH.	U.S. EPA	A I.D. #:_	CAR0001915	<u>36</u>
Pro	file # 390575	-00		Manifest	#:	000765009JJF	<u> </u>
268	s, Subpart D	rified on this form a or do not meet the a w (check all boxes	pplicable prohibition leve	osal restrictions ls specified in 2	of 40 CF 68.32. Pu	FR Part 268. The rsuant to 40 CF	e wastes do not meet the treatment standards specified R 268.7(a), the required information applicable to each
			Treatability Group: Wastewaters contain less	[ than 1% filteral	☐ Waste	water and less than 19	Nonwastewater % Total Organic Carbon)
X	Comp D001 Ignita D001 High D002 Corro D003 React D003 React D003 Water D003 Water	lete form UC, unleted ble (except for High TOC Ignitable (great posive managed in notice Sulfides based on the Cyanides based of Reactives based on Reactive Based on Reactive Based on Reactive Based on R	on 261.23(a)(5)	ode and the was CWA-equivale carbon) valent/non Class ss I SDWA syste managed in no managed in CWA	te is to be nt/Class I ss I SDW ms	c combusted or i SDWA systems A systems (Con /non-CWA-equ	recovered.) inplete form UC) ivalent/non Class I SDWA systems (Complete form
If DO	f D004-43 boxes are checked, complete and attach Form UC to address underlying hazardous constituents (unless these wastes are to be managed in CWA/CWA-equivalent/( DWA systems):						these wastes are to be managed in CWA/CWA-equivalent/C
000000000000000	D009 High- D009 Low- D010 Seleni D012 Endr D013 Linda D014 Meth D015 Toxa D016 2,4-D D017 2,4,5- D018 Benze D019 Carbe D020 Chlor D021 Chlor D022 Chlor	mium D000 mercury inorganic (2 mercury organic (>2 mercury (<260 mg/ um in ane oxychlor phene TP (Silvex) ene on tetrachloride rdane robenzene	S Lead	al) enzene ethane ethylene Duddo	D033	d residues from Inters  Hexachloroby Hexachloroet Methyl ethyl Nitrobenzene Pentachlorop Pyridine Tetrachloroet roethylene 2,4,5-Trichlor Vinyl chloride	ntadiene hane ketone henol chylene rophenol rophenol
Note			ed, form UC must be completed, form UC must be completed above.		nderlying	hazardous const	ituents, unless the material is treated in a Clean Water A
XX	F001-F005				ection on i	the back of this fo	rm. Check the hazardous waste number(s) that applies, and
If th	is shipmen	t carries addition	al waste codes that ar	e not address	ed above	e, identify the	m here:
EPA	Waste Cod	<u>Subcat</u>	egory (if applicable)	EPA Wa	ste Code	<u>Subo</u>	category (if applicable)

This is a two sided form

Hazardous waste description	Regulated hazardous constitue	nts
☐ F001 Spent halogenated solvents used in degreasing	Carbon tetrachloride Tetrachloroethylene Trichloroethylene Trichloromonofluoromethane	Methylene chloride 1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
☐ F002 Spent halogenated solvents	Chlorobenzene Methylene chloride 1,1,1-Trichloroethane Trichloroethylene Trichloromonofluoromethane	o-Dichlorobenzene Tetrachloroethylene 1,1,2-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
F003 Spent non-halogenated solvents	Acetone Cyclohexanone* Ethyl benzene Methanol* Xylenes (total)	n-Butyl alcohol Ethyl acetate Ethyl ether Methyl isobutyl ketone
☐ F004 Spent non-halogenated solvents	<i>m</i> -Cresol <i>p</i> -Cresol Nitrobenzene	o-Cresol Cresol-mixed isomers (cresylic acid)
F005 Spent non-halogenated solvents	Benzene 2-Ethoxyethanol Methyl ethyl ketone Pyridine	Carbon disulfide* Isobutyl alcohol 2-Nitropropane Toluene
*The treatment standards for carbon disulfide, containing only one, two, or all three of these constituents are present in the waste.	cyclohexanone, and methanol nonw. constituents. The treatment standard	astewaters are based on the TCLP and apply to spent solvent nonwastew. Is for these three constituents do not apply when any of the other F001-F
Hazardous Debris	with Point Land Land	7/17/97/II/P-W-ATS 6/1/ATS-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-
☐ This shipment contains hazardous debris the blasting).	hat will be treated to comply with the	alternative treatment standards of 268.45 (e.g., macroencapsulation or al
		Per 268.45, hazardous debris must be treated for each "contant of and list the regulated hazardous constituents for each code.)

Contaminants subject to treatment

EPA Waste Code

The contaminants subject to treatment for this debris are identified below:

Subcategory

	Generator: SPACE EXPLORATION TECH. U.S. EPA I.D. #:CAR000191536
	Profile #:390575-00 Manifest #: <u>000765009JJK</u>
	In accordance with 40 CFR 268.7(a), the underlying hazardous constituents must be addressed in this waste. Per 268.2(i), "underlying hazardous constituent" means any constituent listed in 268.48, Table UTS—Universal Treatment Standard which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. Refer to Form-EZ (attached) for the waste code(s), treatability group, and subcategory applicable to this waste.
	In order to address underlying hazardous constituents in characteristic wastes, please check the appropriate box:
ם	I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that there are no underlying hazardous constituents reasonably expected to be present in this waste.
ĸ	I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that underlying hazardous constituents are present in this waste. The underlying hazardous constituents are identified as follows:
	TOTAL CONTRACTOR OF THE PROPERTY OF THE PROPER
Гһе	determination of underlying hazardous constituents was based on:
ζ	Generator's knowledge of the waste
⊐	Analysis
	I certify that I personally have examined and am familiar with the waste through analysis and testing, or through knowledge of the waste to support this certification. I certify that as an authorized representative of the generator named above, all the information submitted in this notification is true and correct to the best of my knowledge.
Arin	aceli Rodriguez De Bignature Date

#### List of Underlying Hazardous Constituents 40 CFR 268.48

List of Underlying Hazardous Con		.,	
	erlying hazardous constituents present in		
Organic Constituent	Organic Constituent	Organic Constituent	Organic Constituent
A2213	2-Chlorophenol	Ethyl acetate	Oxamyl
Acenaphthylene	3-Chloropropylene	Ethyl benzene	Parathion
Acenaphthene	Chrysene	Ethyl cyanide/Propanenitrile	Total PCBs(sum of all isomers, or all
Aroclors)			
Acetone	o-Cresol	Ethyl ether	Pebulate
Acetonitrile	m-Cresol	bis(2-Ethylhexyl)phthalate	Pentachlorobenzene
Acetophenone	p-Cresol	Ethyl methacrylate	PeCDDs(All Pentachlorodibenzo-p-dioxii
2-Acetylaminofluorene	m-Cumenyl methylcarbamate	Ethylene oxide	PeCDFs(All Pentachlorodibenzofurans)
Acrolein Acrylamide	Cyclohexanone	Famphur	Pentachloroethane
Acrylaniue Acrylonitrile	o,p'-DDD p,p'-DDD	Fluoranthene	Pentachloronitrobenzene
Actylomeriae Aldicarb sulfone	o,p'-DDE	Fluorene Formetanate hydrochloride	Pentachlorophenol
Aldrin	p,p'-DDE	Formparanate	Phenacetin Phenanthrene
4-Aminobiphenyl	o,p'-DDT	Heptachlor	Phenol
Aniline	p,p'-DDT	Heptachlor epoxide	o-Phenylenediamine
Anthracene	Dibenz(a,h)anthracene	Hexachlorobenzene	Phorate
Aramite	Dibenz(a,e)pyrene	Hexachlorobutadiene	Phthalic acid
alpha-BHC	1,2-Dibromo-3-chloropropane	Hexachlorocyclopentadiene	Phthalic anhydride
beta-BHC	1,2-Dibromoethane/Ethylene dibromide	HxCDDs(All Hexachlorodibenzo-p-dioxins	
delta-BHC	Dibromomethane	HxCDFs(All Hexachlorodibenzofurans)	Physostigmine salicylate
gamma-BHC	m-Dichlorobenzene	Hexachloroethane	Promecarb
Barban	o-Dichlorobenzene	Hexachloropropylene	Pronamide
Bendiocarb	p-Dichlorobenzene	Indeno(1,2,3-c,d)pyrene	Propham
Bendiocarb phenol	Dichlorodifluoromethane	Iodomethane	Propoxur
Benomyl	1,1-Dichloroethane	Isobutyl alcohol	Prosulfocarb
Benzene	1,2-Dichloroethane	Isodrin	Ругепе
Benz(a)anthracene	1,1-Dichloroethylene	Isolan	Pyridine
Benzal chloride	trans-1,2-Dichloroethylene	Isosafrole	Safrole
Benzo(b)fluoranthene	2,4-Dichlorophenol	Kepone	Silvex/2,4,5-TP
Benzo(k)fluoranthene	2,6-Dichlorophenol	Methacrylonitrile	1,2,4,5-Tetrachlorobenzene
Benzo(g,h,i)perylene	2,4-Dichlorophenoxyacetic acid/2,4-D	Methanol	TCDDs(All Tetrachlorodibenzo-p-dioxins
Benzo(a)pyrene	1,2-Dichloropropane	Methapyrilene	TCDFs(All Tetrachlorodibenzofurans)
Bromodichloromethane	cis-1,3-Dichloropropylene	Methiocarb	1,1,1,2-Tetrachloroethane
Bromomethane/Methyl bromide	trans-1,3-Dichloropropylene	Methomyl	1,1,2,2-Tetrachloroethane
4-Bromophenyl phenyl ether	Dieldrin	Methoxychlor	Tetrachloroethylene
n-Butyl alcohol	Diethylene glycol, dicarbamate	3-Methylcholanthrene 2,3,4,6-Te	trachlorophenol
Butylate	Diethyl phthalate	4,4-Methylene-bis(2-chloroaniline)	Thiodicarb
Butyl benzyl phthalate	p-Dimethylaminoazobenzene	Methylene chloride	Thiophanate-methyl
2-sec-Butyl-4,6-dinitrophenol/Dinoseb	2,4-Dimethyl phenol	Methyl ethyl ketone	Tirpate
Carbaryl	Dimethyl phthalate	Methyl isobutyl ketone	Toluene
Carbenzadim	Dimetilan	Methyl methacrylate	Toxaphene
Carbofuran	Di-n-butyl phthalate	Methyl methansulfonate	Triallate
Carbofuran phenol	1,4-Dinitrobenzene	Methyl parathion	Tribromomethane/Bromoform
Carbon disulfide	4,6-Dinitro-o-cresol	Metolcarb	2,4,6-Tribromophenol
Carbon tetrachloride	2,4-Dinitrophenol	Mexacarbate	1,2,4-Trichlorobenzene
Carbosulfan	2,4-Dinitrotoluene	Molinate	1,1,1-Trichloroethane
Chlordane (alpha and gamma isomers)	2,6-Dinitrotoluene	Naphthalene	1,1,2-Trichloroethane
p-Chloroaniline	Di-n-octyl phthalate	2-Naphthylamine	Trichloroethylene
Chlorobenzene	Di-n-propylnitrosamine	o-Nitroaniline	Trichloromonofluoromethane
Chlorobenzilate	1,4-Dioxane	p-Nitroaniline	2,4,5-Trichlorophenol
2-Chloro-1,3-butadiene	Diphenylamine	Nitrobenzene	2,4,6-Trichlorophenol
Chlorodibromomethane	Diphenylnitrosamine	5-Nitro-o-toluidine	2,4,5-Trichlorophenoxyacetic acid/2,4,5-T
Chloroethane	I,2-Diphenylhydrazine	o-Nitrophenol	1,2,3-Trichloropropane
bis(2-Chloroethoxy)methane	Disulfoton	p-Nitrophenol	1,1,2-Trichloro-1,2,2-trifluoroethane
bis(2-Chloroethyl)ether	Dithiocarbamates (total)	N-Nitrosodiethylamine	Triethylamine
Chloroform	Endosulfan I	N-Nitrosodimethylamine	tris-(2,3-Dibromopropyl)phosphate
bis(2-Chloroisopropyl)ether	Endosulfan II	N-Nitroso-di-n-butylamine	Vernolate
p-Chloro-m-cresol	Endosulfan sulfate	N-Nitrosomethylethylamine	Vinyl chloride
2-Chloroethyl vînyl ether	Endrin	N-Nitrosomorpholine	Xylenes-mixed isomers
Chloromethane/Methyl chloride	Endrin aldehyde	N-Nitrosopiperidine	(sum of o-,m-, and p-xylene
concentrations)	EDTC	NI Nitua na manusa 11 di ma	
2-Chloronaphthalene	EPTC	N-Nitrosopyrrolidine	Territoria Constitution
Inogranic Constituent	Inorganic Constituent	Inorganic Constituent	Inorganic Constituent
Antimony	Cadmium	Lead	Silver
Arsenic	Chromium (Total)	Mercury-Nonwastewater from Retort	Sulfides
Barium Bervilium	Cyanides (Total) Cyanides (Amenable)	Mercury-All Others Nickel	Thallium
DELYHUM	CVANIUS LAIBENABET	NICKEI	

Nickel

Cyanides (Amenable)

Beryllium



Gene	erator:	SPACE EXP	LORATION TECH.	U.S. EPA I.I	D. #:	CAR000191536	
Prof	ile # 390527	3-00		Manifest #:_		000765059JJK	
268,	Subpart D	ified on this form or do not meet the w (check all box	e applicable prohibition level	osal restrictions of a s specified in 268.3	40 CFR 2. Pursi	Part 268. The want to 40 CFR 2	vastes do not meet the treatment standards specified 268.7(a), the required information applicable to each
			Treatability Group: (Wastewaters contain less t		Wastewa olids an		Nonwastewater  Total Organic Carbon)
X	(Comp D001 Ignita D001 High 'D002 Corro D002 Corro D003 Reacti D003 Water D003 Water	ble (except for H FOC Ignitable (gasive managed in ve Sulfides base ve Cyanides base Reactives based	High TOC) managed in non- mless D001 is the only "D" co High TOC) managed in CWA/ greater than 10% total organic n non-CWA/non-CWA-equiv CWA/ CWA-equivalent/Class d on 261.23(a)(5) ded on 261.23(a)(5) d on 261.23(a)(2),(3) and (4) n on 261.23(a)(2),(3) and (4) n d on 261.23(a)(1) (Complete	ode and the waste is CWA-equivalent/C carbon) valent/non Class I is I SDWA systems managed in non-C nanaged in CWA/C	S to be collass I Si SDWA	ombusted or rec DWA systems systems (Compl on-CWA-equiva	lete form UC)  slent/non Class I SDWA systems (Complete form
If DOU	04-43 boxes a 4 systems):	re checked, compl	ete and attach Form UC to addre	ss underlying hazard	ous cons	tituents (unless the	ese wastes are to be managed in CWA/CWA-equivalent/C
	D009 High-ID009 Low-ID010 Seleni D012 Endri D013 Linda D014 Meth D015 Toxa D016 2,4-D D017 2,4,5- D018 Benze D019 Carbe D020 Chlor D021 Chlor	nium E nercury inorgani nercury organic nercury (<260 n um in oxychlor ohene TP (Silvex) one on tetrachloride dane obenzene oform	D008 Lead	ding incinerator resi D009 All D009 wa	D033 1 D034 1 D035 1 D036 1 D037 1 D038 1 D039 5 ichloror D041 2 D042 2 D043 1	esidues from RM ers  Hexachlorobuta Hexachloroetha Methyl ethyl ket Nitrobenzene Pentachlorophet Pyridine Tetrachloroethy ethylene 2,4,5-Trichlorop Vinyl chloride	diene ne tone nol rlene ohenol
Note:			ecked, form UC must be comple unless otherwise noted above.	ted to address under	rlying ha	zardous constitu	ents, unless the material is treated in a Clean Water A
			es are included in this ship				
			(If this box is checked, complete resent in the waste.)	the F001-F005 section	on on the	back of this form.	Check the hazardous waste number(s) that applies, and
	15	850 5	ional waste codes that are	e not addressed a	ibove,	identify them	here:
	Waste Cod		category (if applicable)	EPA Waste	veneral management		egory (if applicable)

This is a two sided form

Hazardous waste des	cription	Regulated hazardous constitue	<u>nts</u>
F001 Spent halog used in deg		Carbon tetrachloride Tetrachloroethylene Trichloroethylene Trichloromonofluoromethane	Methylene chloride 1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
□ F002 Spent halog	enated solvents	Chlorobenzene Methylene chloride 1,1,1-Trichloroethane Trichloroethylene Trichloromonofluoromethane	o-Dichlorobenzene Tetrachloroethylene 1,1,2-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
F003 Spent non-l	alogenated solvents	Acetone Cyclohexanone* Ethyl benzene Methanol* Xylenes (total)	n-Butyl alcohol Ethyl acetate Ethyl ether Methyl isobutyl ketone
□ F004 Spent non-h	alogenated solvents	<i>m</i> -Cresol <i>p</i> -Cresol Nitrobenzene	o-Cresol Cresol-mixed isomers (cresylic acid)
F005 Spent non-h	alogenated solvents	Benzene 2-Ethoxyethanol Methyl ethyl ketone Pyridine	Carbon disulfide* Isobutyl alcohol 2-Nitropropane Toluene
containing only one, t	ds for carbon disulfide, vo, or all three of these nt in the waste.	cyclohexanone, and methanol nonwo constituents. The treatment standara	astewaters are based on the TCLP and apply to spent solvent nonwaste Is for these three constituents do not apply when any of the other F001
Hazardous Debris	ains hazardous debris tl	nat will be treated to comply with the	alternative treatment standards of 268.45 (e.g., macroencapsulation or
Hazardous Debris  This shipment conblasting).  The definitions of "	debris" and "hazarde	ous debris" are in 40 CFR 268.2	alternative treatment standards of 268.45 (e.g., macroencapsulation or Per 268.45, hazardous debris must be treated for each "conte 0 and list the regulated hazardous constituents for each code.)
Hazardous Debris  This shipment conblasting).  The definitions of "aubject to treatment."	debris" and "hazardo ' To determine these,	ous debris" are in 40 CFR 268.2	. Per 268.45, hazardous debris must be treated for each "conto

	Generator: SPACE EXPLORATION TECH. U.S. EPA I.D. #:CAR000191536
	Profile #:390573-00 Manifest #: 000765059JJK
	In accordance with 40 CFR 268.7(a), the underlying hazardous constituents must be addressed in this waste. Per 268.2(i), "underlying hazardous constituent" means any constituent listed in 268.48, Table UTS—Universal Treatment Standard which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. Refer to Form-EZ (attached) for the waste code(s), treatability group, and subcategory applicable to this waste.
	In order to address underlying hazardous constituents in characteristic wastes, please check the appropriate box:
コ	I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that there are no underlying hazardous constituents reasonably expected to be present in this waste.
Κ.	I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that underlying hazardous constituents are present in this waste. The underlying hazardous constituents are identified as follows:
The	e determination of underlying hazardous constituents was based on:
ζ	Generator's knowledge of the waste
コ	Analysis
	I certify that I personally have examined and am familiar with the waste through analysis and testing, or through knowledge of the waste to support this certification. I certify that as an authorized representative of the generator named above, all the information submitted in this notification is true and correct to the best of my knowledge.
<u>}</u> ?ri	ace Li Rodriguez  Neted Name  Neted Name  Nete Nete Nete Nete Nete Nete Nete Ne

List of Underlying Hazardous Constituents 40 CFR 268.48

Circle or otherwise identify the underlying hazardous constituents present in the waste: Organic Constituent Organic Constituent Organic Constituent Organic Constituent Oxamyl 2-Chlorophenol Ethyl acetate A2213 Parathion Acenaphthylene 3-Chloropropylene Ethyl benzene Total PCBs(sum of all isomers, or all Ethyl cyanide/Propanenitrile Chrysene Acenaphthene Aroclors) o-Cresol Ethyl ether Pebulate Acetone bis(2-Ethylhexyl)phthalate Pentachlorobenzene m-Cresol Acetonitrile PeCDDs(All Pentachlorodibenzo-p-dioxir p-Cresol Ethyl methacrylate Acetophenone PeCDFs(All Pentachlorodibenzofurans) Ethylene oxide m-Cumenyl methylcarbamate 2-Acetylaminofluorene Cyclohexanone Famphur Pentachloroethane Acrolein Pentachloronitrobenzene Fluoranthene Acrylamide o,p'-DDD p,p'-DDD Pentachlorophenol Fluorene Acrylonitrile o,p'-DDE Phenacetin Formetanate hydrochloride Aldicarb sulfone p,p -DDE Formparanate Phenanthrene Aldrin o.p'-DDT Heptachlor Phenol 4-Aminobiphenyl o-Phenylenediamine p,p'-DDT Heptachlor epoxide Aniline Phorate Dibenz(a,h)anthracene Hexachlorobenzene Anthracene Phthalic acid Hexachlorobutadiene Aramite Dibenz(a,e)pyrene Phthalic anhydride 1,2-Dibromo-3-chloropropane Hexachlorocyclopentadiene alpha-BHC HxCDDs(All Hexachlorodibenzo-p-dioxins)Physostigmine 1,2-Dibromoethane/Ethylene dibromide beta-BHC HxCDFs(All Hexachlorodibenzofurans) Physostigmine salicylate delta-BHC Dibromomethane Hexachloroethane Promecarb m-Dichlorobenzene gamma-BHC Hexachloropropylene Pronamide o-Dichlorobenzene Barban p-Dichlorobenzene Indeno(1,2,3-c,d)pyrene Propham Bendiocarb Ргорохиг Bendiocarb phenol Dichlorodifluoromethane Iodomethane Isobutyl alcohol Prosulfocarb Benomyl 1.1-Dichloroethane Isodrin Pyrene 1,2-Dichloroethane Benzene Pyridine Benz(a)anthracene 1,1-Dichloroethylene Isolan Safrole trans-1,2-Dichloroethylene Isosafrole Benzal chloride Silvex/2,4,5-TP Benzo(b)fluoranthene 2,4-Dichlorophenol Kepone 2,6-Dichlorophenol Methacrylonitrile 1,2,4,5-Tetrachlorobenzene Benzo(k)fluoranthene TCDDs(All Tetrachlorodibenzo-p-dioxins Benzo(g,h,i)perylene 2.4-Dichlorophenoxyacetic acid/2,4-D Methanol TCDFs(All Tetrachlorodibenzofurans) Methapyrilene 1,2-Dichloropropane Benzo(a)pyrene 1,1,1,2-Tetrachloroethane cis-1,3-Dichloropropylene Methiocarb Bromodichloromethane 1,1,2,2-Tetrachloroethane trans-1,3-Dichloropropylene Methomyl Bromomethane/Methyl bromide Tetrachloroethylene Dieldrin Methoxychlor 4-Bromophenyl phenyl ether 2,3,4,6-Tetrachlorophenol Diethylene glycol, dicarbamate 3-Methylcholanthrene n-Butyl alcohol 4,4-Methylene-bis(2-chloroaniline) Thiodicarb Diethyl phthalate Butylate p-Dimethylaminoazobenzene Methylene chloride Thiophanate-methyl Butyl benzyl phthalate 2-sec-Butyl-4,6-dinitrophenol/Dinoseb Methyl ethyl ketone Tirpate 2,4-Dimethyl phenol Methyl isobutyl ketone Toluene Dimethyl phthalate Carbaryl Methyl methacrylate Toxaphene Dimetilan Carbenzadim Triallate Di-n-butyl phthalate Methyl methansulfonate Carbofuran Methyl parathion Tribromomethane/Bromoform 1,4-Dinitrobenzene Carbofuran phenol 2,4,6-Tribromophenol Carbon disulfide 4,6-Dinitro-o-cresol Metolcarb 2,4-Dinitrophenol Mexacarbate 1,2,4-Trichlorobenzene Carbon tetrachloride 1,1,1-Trichloroethane 2,4-Dinitrotoluene Molinate Carbosulfan Naphthalene 1,1,2-Trichloroethane 2,6-Dinitrotoluene Chlordane (alpha and gamma isomers) 2-Naphthylamine Trichloroethylene p-Chloroaniline Di-n-octyl phthalate Trichloromonofluoromethane Di-n-propylnitrosamine o-Nitroaniline Chlorobenzene 2,4,5-Trichlorophenol 1.4-Dioxane p-Nitroaniline Chlorobenzilate 2,4,6-Trichlorophenol Diphenylamine Nitrobenzene 2-Chloro-1,3-butadiene 2,4,5-Trichlorophenoxyacetic acid/2,4,5-7 Diphenylnitrosamine 5-Nitro-o-toluidine Chlorodibromomethane 1,2,3-Trichloropropane 1,2-Diphenylhydrazine o-Nitrophenol Chloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane Disulfoton p-Nitrophenol bis(2-Chloroethoxy)methane Triethylamine N-Nitrosodiethylamine Dithiocarbamates (total) bis(2-Chloroethyl)ether N-Nitrosodimethylamine tris-(2,3-Dibromopropyl)phosphate Endosulfan I Chloroform N-Nitroso-di-n-butylamine Vernolate bis(2-Chloroisopropyl)ether Endosulfan II N-Nitrosomethylethylamine Vinyl chloride Endosulfan sulfate p-Chloro-m-cresol

EPTC N-Nitrosopyrrolidine
Inorganic Constituent Inorganic Constituent

CadmiumLeadSilverChromium (Total)Mercury-Nonwastewater from RetortSulfidesCyanides (Total)Mercury-All OthersThalliumCyanides (Amenable)Nickel

N-Nitrosomorpholine

N-Nitrosopiperidine

This is a two sided form

Xylenes-mixed isomers

Inorganic Constituent

(sum of o-,m-, and p-xylene

Endrin

Endrin aldehyde

2-Chloroethyl vinyl ether

concentrations)

Antimony

Beryllium

Arsenic

Barium

2-Chloronaphthalene

Inogranic Constituent

Chloromethane/Methyl chloride

#### Siemens Water Technologies Corp.

#### LAND DISPOSAL RESTRICTION NOTIFICATION FORM

Pursuant to CCR Title 22, Section 66268.7(40 CFR 268.7(a), I hereby notify that this waste shipment contains one or more of the following wastes restricted under the land disposal restrictions for which applicable treatment standards are set forth in CCR Title 22, Section 66268.40 (40 CFR 268.40)

			*			
Manifest Num.00076	5058JJK Ger	nerator Name: S	Space Explo	ration	EPA# CA	R000191536
RCRA HAZARDOUS			space Zapio	141011		1000131330
U.S.F. PROFILE NUMBER/ MANIFEST LINE ITEM NUMBER	List all D, F, K, U & P Codes	Subcategory (IF ANY)		WATER*/ STEWATER NWW	California List ** Per CCR Title 22, Section 66268.32	Hazardous Debris Subject To CCR Title 22, Sec 66268.45
1)P179098	D002,D007		\$ ************************************		□For:	
2)AP169390	D006, D007				☐ For:	
3)350728-47					☐ For:	
					☐ For:	
					F039 WASTE STREAM	IS: (check one)
There are no und	derlying hazardo	ous constituents (l	JHCs) prese	ent		
66268.48					t meet treatment standards	per CCR Title 22, Section
			opriate cons	stituent(s) pr	esent in the waste stream)	
<b>DETERMINATION</b> Make the second of the second of the second or the seco		` '	nd the raw n	naterials use	ed and the reaction products	S
☐ Results from ana	lytical testing		Ana	lvtical result	s attached YES N	10
						***************************************
(TOCs) AND 1% BY W	= per CCR Title : EIGHT TOTAL SI	USPENDED SOLIDS	Š (TSS). ·			HT TOTAL TOXIC ORGANICS
*CALIFORNIA LIST	THE FOLLOWI	NG HAZARDOUS W	ASTES ARE	PROHIBITE	D FROM LAND DISPOSAL: pe	er CCR Title 22, Section 66268.32
Liquid hazardous v	waste with a pH le	ess than or equal to to PCB's at concentrati	2.0	. ()	LL. ED	
<ul> <li>Liquid hazardous</li> <li>1,000 mg/L</li> </ul>	waste containing t waste, including f	ree liquids associate	ed with any s	than or equa solids/sludge,	containing free cyanide at con	centrations greater than or equal to
. •	waste, including fr	ee liquids associate	d with any so	lids/sludge, c	ontaining metals at concentrati	ons greater than or equal to the
ARSENIC	500 mg/L		MERCUR	Y	20 mg/L	
CADMIUM	100 mg/L		NICKEL		134 mg/L	
CHROMIUM	500 mg/L		SELENIUI		100 mg/L	
LEAD	500 mg/L		THALLIUI		130 mg/L	
<ul> <li>Liquid hazardous v</li> <li>Non-liquid RCRA l</li> </ul>	vaste, that contain	is HOC's in total cor	ncentration g	reater than or	equal to 1,000 mg/L	
CERTIFICATION	iazaiuous wasie i	containing HOC's in	total concent	ration greater	than or equal to 1,000 mg/L	
I certify under penalty of the waste to support	rt this certificatio	on. I believe that th	ie informatio	n I have sub	the waste through analysis mitted is true, accurate and o ity of a fine and imprisonmer	and testing or through knowledge complete. I am aware that there
SOS for Space I			Men	2	•	11/21/08
COMPANY NAME			AUT	HORIZED S	IGNATURE	DATE



Gene	rator: SPACE I	EXPLORATION TECH.	U.S. EPA I.D.	#:CAR000191	<u>536</u>
Profi	le # 392451-00, 390935	-00	Manifest #:	000765013J	<u>IK</u>
268,	wastes identified on this Subpart D or do not me ntified below (check all	et the applicable prohibition levels	sal restrictions of 40 specified in 268.32.	CFR Part 268. T Pursuant to 40 C	the wastes do not meet the treatment standards specified FR 268.7(a), the required information applicable to each
		Treatability Group: (Wastewaters contain less th		astewater ids and less than	Nonwastewater 1% Total Organic Carbon)
X II	(Complete form UC D001 Ignitable (except if D001 High TOC Ignitable D002 Corrosive manage D002 Corrosive manage D003 Reactive Sulfides D003 Reactive Cyanides D003 Water Reactives D003 Water Reactives	based on 261.23(a)(5)	de and the waste is to CWA-equivalent/Cla carbon) alent/non Class I SI I SDWA systems managed in non-CV anaged in CWA/ CW	o be combusted on ss I SDWA system OWA systems (Co WA/non-CWA-eq	recovered.)  ns  nmplete form UC)  uivalent/non Class I SDWA systems (Complete form
	4-43 boxes are checked, co	omplete and attach Form UC to addres	s underlying hazardou	s constituents (unles	ss these wastes are to be managed in CWA/CWA-equivalent/C
	2009 High-mercury orga 2009 Low-mercury (<2 2010 Selenium 2012 Endrin 2013 Lindane 2014 Methoxychlor 2015 Toxaphene 2016 2,4-D 2017 2,4,5-TP (Silvex) 2018 Benzene 2019 Carbon tetrachlo 2020 Chlordane 2021 Chlorobenzene 2022 Chloroform	D008 Lead ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	ing incinerator reside  D009 All D009 wast  D D  D D  D D  D D  D D  D D  D D  D	and residues from the ewaters  033 Hexachloro 034 Hexachloro 035 Methyl ethy 036 Nitrobenzer 037 Pentachloro 038 Pyridine 039 Tetrachloro hloroethylene 041 2,4,5-Trichl 042 2,4,6-Trichl 043 Vinyl chlori	butadiene ethane I ketone ne phenol ethylene orophenol orophenol de
Note:		e checked, form UC must be complete ss or unless otherwise noted above.	ed to address underly	ing hazardous con	stituents, unless the material is treated in a Clean Water A
		vastes are included in this shipm			
			the F001-F005 section	on the back of this	form. Check the hazardous waste number(s) that applies, and
	y the constituents likely to	lditional waste codes that are	not addressed ab	ove identify th	em here:
	3. <del>5</del> .	Subcategory (if applicable)	EPA Waste C		bcategory (if applicable)

This is a two sided form

	azardous waste description	Regulated hazardous constitue	<u>nts</u>
	F001 Spent halogenated solvents used in degreasing	Carbon tetrachloride Tetrachloroethylene Trichloroethylene Trichloromonofluoromethane	Methylene chloride 1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
	F002 Spent halogenated solvents	Chlorobenzene Methylene chloride 1,1,1-Trichloroethane Trichloroethylene Trichloromonofluoromethane	o-Dichlorobenzene Tetrachloroethylene 1,1,2-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
	F003 Spent non-halogenated solvents	Acetone Cyclohexanone* Ethyl benzene Methanol* Xylenes (total)	n-Butyl alcohol Ethyl acetate Ethyl ether Methyl isobutyl ketone
	F004 Spent non-halogenated solvents	<i>m</i> -Cresol <i>p</i> -Cresol Nitrobenzene	o-Cresol Cresol-mixed isomers (cresylic acid)
	F005 Spent non-halogenated solvents	Benzene 2-Ethoxyethanol Methyl ethyl ketone Pyridine	Carbon disulfide* Isobutyl alcohol 2-Nitropropane Toluene
CC	he treatment standards for carbon disulfide ontaining only one, two, or all three of these onstituents are present in the waste.	, cyclohexanone, and methanol nonw e constituents. The treatment standard	nstewaters are based on the TCLP and apply to spent solvent nonwastew s for these three constituents do not apply when any of the other F001-F
— Ha	zardous Debris		
Ha		that will be treated to comply with the	alternative treatment standards of 268.45 (e.g., macroencapsulation or ai
□ (T/	This shipment contains hazardous debris blasting).  the definitions of "debris" and "hazardous debris".	lous debris" are in 40 CFR 268.2	alternative treatment standards of 268.45 (e.g., macroencapsulation or al Per 268.45, hazardous debris must be treated for each "contant of and list the regulated hazardous constituents for each code.)
□ (Ti sub	This shipment contains hazardous debris blasting).  the definitions of "debris" and "hazardous debris".	lous debris" are in 40 CFR 268.2 c, look up the waste code in 268.4	Per 268.45, hazardous debris must be treated for each "contan

	Generator: SPACE EXPLORATION TECH. U.S. EPA I.D. #:CAR000191536
	Profile #:392451-00, 390935-00 Manifest #: 000765013JJK
	In accordance with 40 CFR 268.7(a), the underlying hazardous constituents must be addressed in this waste. Per 268.2(i), "underlying hazardous constituent" means any constituent listed in 268.48, Table UTS—Universal Treatment Standard which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. Refer to Form-EZ (attached) for the waste code(s), treatability group, and subcategory applicable to this waste.
	In order to address underlying hazardous constituents in characteristic wastes, please check the appropriate box:
	I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that there are no underlying hazardous constituents reasonably expected to be present in this waste.
ζ.	I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that underlying hazardous constituents are present in this waste. The underlying hazardous constituents are identified as follows:
The	e determination of underlying hazardous constituents was based on:
ζ	Generator's knowledge of the waste
]	Analysis
	I certify that I personally have examined and am familiar with the waste through analysis and testing, or through knowledge of the waste to support this certification. I certify that as an authorized representative of the generator named above, all the information submitted in this notification is true and correct to the best of my knowledge.
<u>}</u>	raceli Rodriguez  Noted Name    Note

List of Underlying Hazardous Constituents 40 CFR 268.48

Circle or otherwise identify the underlying hazardous constituents present in the waste:

Organic Constituent Organic Constituent Organic Constituent Organic Constituent A2213 2-Chlorophenol Ethyl acetate Oxamyl

Acenaphthylene 3-Chloropropylene Ethyl benzene Parathion Ethyl cyanide/Propanenitrile Total PCBs(sum of all isomers, or all

Acenaphthene Chrysene Aroclors)

Kar

Acetone o-Cresol Ethyl ether Pebulate Acetonitrile m-Cresol bis(2-Ethylhexyl)phthalate Pentachlorobenzene

p-Cresol Acetophenone Ethyl methacrylate PeCDDs(All Pentachlorodibenzo-p-dioxi 2-Acetylaminofluorene m-Cumenyl methylcarbamate Ethylene oxide PeCDFs(All Pentachlorodibenzofurans)

Acrolein Cyclohexanone Famphur Pentachloroethane Acrylamide o,p'-DDD Fluoranthene Pentachloronitrobenzene Acrylonitrile p,p'-DDD Fluorene Pentachlorophenol o,p'-DDE Aldicarb sulfone Formetanate hydrochloride Phenacetin Aldrin p,p'-DDE Formparanate Phenanthrene 4-Aminobiphenyl o,p'-DDT Heptachlor Phenol

Aniline p,p'-DDT Heptachlor epoxide o-Phenylenediamine Anthracene Dibenz(a,h)anthracene Hexachlorobenzene Phorate Aramite Dibenz(a,e)pyrene Hexachlorobutadiene Phthalic acid

alpha-BHC 1,2-Dibromo-3-chloropropane Hexachlorocyclopentadiene Phthalic anhydride beta-BHC 1,2-Dibromoethane/Ethylene dibromide HxCDDs(All Hexachlorodibenzo-p-dioxins)Physostigmine delta-BHC HxCDFs(All Hexachlorodibenzofurans) Dibromomethane Physostigmine salicylate

gamma-BHC m-Dichlorobenzene Hexachloroethane Promecarb Barban o-Dichlorobenzene Hexachloropropylene Pronamide Indeno(1,2,3-c,d)pyrene Bendiocarb p-Dichlorobenzene Propham Bendiocarb phenol Dichlorodifluoromethane Iodomethane Propoxur Benomyl 1,1-Dichloroethane Isobutyl alcohol Prosulfocarb Benzene 1,2-Dichloroethane Isodrin Pyrene Benz(a)anthracene 1.1-Dichloroethylene Isolan Pyridine

Benzal chloride trans-1,2-Dichloroethylene Isosafrole Safrole 2.4-Dichlorophenol Benzo(b)fluoranthene Kepone Silvex/2,4,5-TP

Benzo(k)fluoranthene 2,6-Dichlorophenol Methacrylonitrile 1,2,4,5-Tetrachlorobenzene 2,4-Dichlorophenoxyacetic acid/2,4-D TCDDs(All Tetrachlorodibenzo-p-dioxins Benzo(g,h,i)perylene Methanol

Benzo(a)pyrene 1,2-Dichloropropane Methapyrilene TCDFs(All Tetrachlorodibenzofurans) Bromodichloromethane cis-1,3-Dichloropropylene Methiocarb 1,1,1,2-Tetrachloroethane

Bromomethane/Methyl bromide trans-1,3-Dichloropropylene Methomyl 1,1,2,2-Tetrachloroethane 4-Bromophenyl phenyl ether Dieldrin Methoxychlor Tetrachloroethylene n-Butyl alcohol Diethylene glycol, dicarbamate 3-Methylcholanthrene 2,3,4,6-Tetrachlorophenol Butylate Diethyl phthalate

4,4-Methylene-bis(2-chloroaniline) Thiodicarb Butyl benzyl phthaiate p-Dimethylaminoazobenzene Methylene chloride Thiophanate-methyl

Methyl ethyl ketone 2-sec-Butyl-4,6-dinitrophenol/Dinoseb 2,4-Dimethyl phenol Tirpate Carbaryl Dimethyl phthalate Methyl isobutyl ketone Toluene Carbenzadim Dimetilan Methyl methacrylate Toxaphene Carbofuran Di-n-butyl phthalate Methyl methansulfonate Triallate

Carbofuran phenol 1,4-Dinitrobenzene Methyl parathion Tribromomethane/Bromoform Carbon disulfide 4.6-Dinitro-o-cresol Metolcarb 2,4,6-Tribromophenol Carbon tetrachloride 2,4-Dinitrophenol Mexacarbate 1,2,4-Trichlorobenzene Carbosulfan 2,4-Dinitrotoluene Molinate 1,1,1-Trichloroethane Chlordane (alpha and gamma isomers) 2,6-Dinitrotoluene Naphthalene

1,1,2-Trichloroethane p-Chloroaniline Di-n-octyl phthalate 2-Naphthylamine Trichloroethylene Chlorobenzene Di-n-propylnitrosamine o-Nitroaniline Trichloromonofluoromethane Chlorobenzilate 1,4-Dioxane p-Nitroaniline 2,4,5-Trichlorophenol 2-Chloro-1,3-butadiene Diphenylamine Nitrobenzene 2,4,6-Trichlorophenol

Chlorodibromomethane Diphenylnitrosamine 5-Nitro-o-toluidine 2,4,5-Trichlorophenoxyacetic acid/2,4,5-1 Chloroethane 1,2-Diphenylhydrazine o-Nitrophenol 1,2,3-Trichloropropane

bis(2-Chloroethoxy)methane Disulfoton p-Nitrophenol 1,1,2-Trichloro-1,2,2-trifluoroethane

bis(2-Chloroethyl)ether Dithiocarbamates (total) Triethylamine N-Nitrosodiethylamine

Chloroform Endosulfan I N-Nitrosodimethylamine tris-(2,3-Dibromopropyl)phosphate bis(2-Chloroisopropyl)ether Endosulfan II N-Nitroso-di-n-butylamine

Vernolate p-Chloro-m-cresol Endosulfan sulfate N-Nitrosomethylethylamine Vinyl chloride 2-Chloroethyl vinyl ether Endrin

N-Nitrosomorpholine Xylenes-mixed isomers Chloromethane/Methyl chloride Endrin aldehyde N-Nitrosopiperidine (sum of o-,m-, and p-xylene concentrations)

2-Chloronaphthalene N-Nitrosopyrrolidine Inogranic Constituent Inorganic Constituent Inorganic Constituent Inorganic Constituent

Antimony Cadmium Lead Silver Arsenic Chromium (Total) Mercury-Nonwastewater from Retort Sulfides Barium Cyanides (Total) Thallium

Mercury-All Others Beryllium Cyanides (Amenable) Nickel



Generator: _	SPACE EXPLOR	RATION TECH.	U.S. EPA I.D. #	#:CAR00019153	<u>36</u>
Profile #3905	73-00,392451-00, 3940	91-00, 392735-00	Manifest #:	000765008JJK	<u>,</u>
268, Subpart 1	entified on this form are D or do not meet the ap elow (check all boxes the	plicable prohibition levels s	al restrictions of 40 specified in 268.32.	CFR Part 268. The Pursuant to 40 CFF	wastes do not meet the treatment standards specified R 268.7(a), the required information applicable to each
	()	Treatability Group: Wastewaters contain less tha	□ Wa an 1% filterable soli	stewater ds and less than 1%	Nonwastewater % Total Organic Carbon)
(Con   X   D001 Ign   D001 Hig   D002 Co   D002 Co   D003 Rea   D003 Rea   D003 Wa	inplete form UC, unless itable (except for High gh TOC Ignitable (great rrosive managed in no rrosive managed in CW active Sulfides based on active Cyanides based on acter Reactives based on the Reactives based on	n 261.23(a)(5)	e and the waste is to WA-equivalent/Clas arbon) lent/non Class I SD SDWA systems managed in non-CW maged in CWA/ CW	be combusted or rest I SDWA systems  WA systems (Combusted)  WA/non-CWA-equi	recovered.)  aplete form UC)  ivalent/non Class I SDWA systems (Complete form
If D004-43 boxe SDWA systems):	es are checked, complete a	nd attach Form UC to address	underlying hazardous	constituents (unless t	these wastes are to be managed in CWA/CWA-equivalent/
□ D009 Hig □ D009 Lov □ D010 Sele □ D012 En □ D013 Lin □ D014 Me □ D015 To □ D016 2,4 □ D017 2,4 □ D018 Bee □ D019 Ca □ D020 Ch □ D021 Ch □ D022 Ch	romium D008 th mercury inorganic (>26 th-mercury organic (>26 w-mercury (<260 mg/k enium drin ndane ethoxychlor xapheneD 3,5-TP (Silvex) nzene rbon tetrachloride lordane lorobenzene loroform	Lead December 260 mg/kg total), including 50 mg/kg total), not including 50 mg/kg total), not including total) December 2 Doll Silver Doll Silver Doll March 2 Do	ng incinerator residue 009 All D009 waste	ies and residues from Re waters  33 Hexachlorobu 34 Hexachloroeth 35 Methyl ethyl k 36 Nitrobenzene 37 Pentachloroph 38 Pyridine 39 Tetrachloroeth loroethylene 41 2,4,5-Trichlor 42 2,4,6-Trichlor 43 Vinyl chloride	ntadiene hane ketone henol hylene rophenol
		l, form UC must be complete ess otherwise noted above.	d to address underlyi	ng hazardous consti	tuents, unless the material is treated in a Clean Water A
In addition, th	ne following wastes ar	e included in this shipme	ent:		
			ne F001-F005 section o	n the back of this for	rm. Check the hazardous waste number(s) that applies, and
	stituents likely to be presen			: 1 4:6 41	
EPA Waste C		al waste codes that are a gory (if applicable)	EPA Waste Co		ategory (if applicable)

This is a two sided form

F001-F005 Spent Solvents Check the box(es) that applies; identig	fy the individual constituents likely to	be present.
Hazardous waste description	Regulated hazardous constitue	ents
☐ F001 Spent halogenated solvents used in degreasing	Carbon tetrachloride Tetrachloroethylene Trichloroethylene Trichloromonofluoromethane	Methylene chloride 1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
☐ F002 Spent halogenated solvents	Chlorobenzene Methylene chloride 1,1,1-Trichloroethane Trichloroethylene Trichloromonofluoromethane	o-Dichlorobenzene Tetrachloroethylene 1,1,2-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
X F003 Spent non-halogenated solvent	ts Acetone Cyclohexanone* Ethyl benzene Methanol* Xylenes (total)	n-Butyl alcohol Ethyl acetate Ethyl ether Methyl isobutyl ketone
☐ F004 Spent non-halogenated solvent	is <i>m</i> -Cresol <i>p</i> -Cresol  Nitrobenzene	o-Cresol Cresol-mixed isomers (cresylic acid)
X F005 Spent non-halogenated solvent	S Benzene 2-Ethoxyethanol Methyl ethyl ketone Pyridine	Carbon disulfide* Isobutyl alcohol 2-Nitropropane Toluene
*The treatment standards for carbon disul containing only one, two, or all three of t constituents are present in the waste.	lfide, cyclohexanone, and methanol nonw these constituents. The treatment standard	astewaters are based on the TCLP and apply to spent solvent nonwastew ds for these three constituents do not apply when any of the other F001-F
Hazardous Debris		
☐ This shipment contains hazardous deb blasting).	oris that will be treated to comply with the	e alternative treatment standards of 268.45 (e.g., macroencapsulation or at
(The definitions of "debris" and "haz subject to treatment." To determine the	zardous debris" are in 40 CFR 268.2 hese, look up the waste code in 268.4	2. Per 268.45, hazardous debris must be treated for each "contan 10 and list the regulated hazardous constituents for each code.)
The contaminants subject to treatment for t	this debris are identified below:	
EPA Waste Code Subcategory	Contaminants subject to	treatment

Generator: SPACE EXPLORATION TECH. U.S. EPA I.D. #:CAR000191536

	Profile #:390573-00,392451-00,394091-00,392735-00 Manifest #: 000765008JJK
	In accordance with 40 CFR 268.7(a), the underlying hazardous constituents must be addressed in this waste. Per 268.2(i), "underlying hazardous constituent" means any constituent listed in 268.48, Table UTS—Universal Treatment Standard which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. Refer to Form-EZ (attached) for the waste code(s), treatability group, and subcategory applicable to this waste.
	In order to address underlying hazardous constituents in characteristic wastes, please check the appropriate box:
]	I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that there are no underlying hazardous constituents reasonably expected to be present in this waste.
7	I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that underlying hazardous constituents are present in this waste. The underlying hazardous constituents are identified as follows:
he	e determination of underlying hazardous constituents was based on:
	Generator's knowledge of the waste
I	Analysis
	I certify that I personally have examined and am familiar with the waste through analysis and testing, or through knowledge of the waste to support this certification. I certify that as an authorized representative of the generator named above, all the information submitted in this notification is true and correct to the best of my knowledge.
h rii	racs Li Rodriguez  Name  Name  Name  Note:

#### List of Underlying Hazardous Constituents 40 CFR 268.48

Circle or otherwise identify the underlying hazardous constituents present in the waste:

 Organic Constituent
 Organic Constituent
 Organic Constituent
 Organic Constituent

 A2213
 2-Chlorophenol
 Ethyl acetate
 Oxamyl

 Acenaphthylene
 3-Chloropropylene
 Ethyl benzene
 Parathion

Acenaphthylene 3-Chloropropylene Ethyl benzene Parathion
Acenaphthene Chrysene Ethyl cyanide/Propanenitrile Total PCBs(sum of all isomers, or all Aroclors)

Acetoneo-CresolEthyl etherPebulateAcetonitrilem-Cresolbis(2-Ethylhexyl)phthalatePentachlorobenzene

Acetophenone p-Cresol Ethyl methacrylate PeCDDs(All Pentachlorodibenzo-p-dioxi 2-Acetylaminofluorene Ethylene oxide PeCDFs(All Pentachlorodibenzo-furans)

Acrolein Cyclohexanone Famphur Pentachloroethane Acrylamide o,p'-DDD Fluoranthene Pentachloronitrobenzene p,p'-DDD Acrylonitrile Fluorene Pentachlorophenol Aldicarb sulfone o.p'-DDE Formetanate hydrochloride Phenacetin p,p'-DDE Aldrin Formparanate Phenanthrene

4-Aminobiphenyl o,p'-DDT Heptachlor Phenol
Aniline p,p'-DDT Heptachlor epoxide o-Phenylenediamine

Anthracene Dibenz(a,h)anthracene Hexachlorobenzene Phorate
Aramite Dibenz(a,e)pyrene Hexachlorobutadiene Phthalic acid
alpha-BHC 1,2-Dibromo-3-chloropropane Hexachlorocyclopentadiene Phthalic anhydride

beta-BHC 1,2-Dibromoethane/Ethylene dibromide HxCDDs(All Hexachlorodibenzo-p-dioxins)Physostigmine delta-BHC Dibromomethane HxCDFs(All Hexachlorodibenzo-furans) Physostigmine salicylate

 delta-BHC
 Dibromomethane
 HxCDFs(All Hexachlorodibenzofurans)
 Physostigmine salicylate

 gamma-BHC
 m-Dichlorobenzene
 Hexachloroethane
 Promecarb

 Barban
 o-Dichlorobenzene
 Hexachloropropylene
 Pronamide

Bendiocarb phenol Dichlorodifluoromethane Fronamide Propham

Bendiocarb phenol Dichlorodifluoromethane Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Fronamide Propham

Frona

Benomyl 1,1-Dichloroethane Isobutyl alcohol Prosulfocarb Benzene 1.2-Dichloroethane Isodrin Ругепе Benz(a)anthracene 1,1-Dichloroethylene Isolan Pyridine Benzal chloride trans-1,2-Dichloroethylene Isosafrole Safrole

Benzo(b)fluoranthene 2,4-Dichlorophenol Kepone Silvex/2,4,5-TP

Benzo(k)fluoranthene 2,6-Dichlorophenol Methacrylonitrile 1,2,4,5-Tetrachlorobenzene
Benzo(g,h,i)perylene 2,4-Dichlorophenoxyacetic acid/2,4-D Methanol TCDDs(All Tetrachlorodibenzo-p-dioxins

Benzo(a)pyrene 1,2-Dichloropropane Methapyrilene TCDFs(All Tetrachlorodibenzofurans)
Bromodichloromethane cis-1,3-Dichloropropylene Methiocarb 1,1,1,2-Tetrachloroethane

Bromomethane/Methyl bromide trans-1,3-Dichloropropylene Methonyl 1,1,2-Tetrachloroethane
4-Bromophenyl phenyl ether Dieldrin Methoxychlor Tetrachloroethylene

n-Butyl alcohol Diethylene glycol, dicarbamate 3-Methylcholanthrene 2,3,4,6-Tetrachlorophenol Butylate Diethyl phthalate 4,4-Methylene-bis(2-chloroaniline) Thiodicarb

Butyl benzyl phthalate p-Dimethylaminoazobenzene 4,4-Methylene-bis(2-chloroaniline) Thiodicarb

Methylene chloride Thiophanate-methyl

2-sec-Butyl-4,6-dinitrophenol/Dinoseb 2,4-Dimethyl phenol Methyl ethyl ketone Tirpate
Carbaryl Dimethyl phthalate Methyl isobutyl ketone Toluene
Carbenzadim Dimetilan Methyl methacrylate Toyonhana

Carbenzadim Dimetilan Methyl methacrylate Toxaphene Carbofuran Di-n-butyl phthalate Methyl methansulfonate Triallate Carbofuran phenol 1,4-Dinitrobenzene Methyl parathion Tribromomethane/Bromoform Carbon disulfide 4,6-Dinitro-o-cresol Metolcarb 2,4,6-Tribromophenol

Carbon tetrachloride 2,4-Dinitrophenol Mexacarbate 1.2.4-Trichlorobenzene Carbosulfan 2,4-Dinitrotoluene Molinate 1,1,1-Trichloroethane Chlordane (alpha and gamma isomers) 2,6-Dinitrotoluene Naphthalene 1,1,2-Trichloroethane p-Chloroaniline Di-n-octyl phthalate 2-Naphthylamine Trichloroethylene Chlorobenzene Di-n-propylnitrosamine o-Nitroaniline

Chlorobenzene Di-n-propylnitrosamine o-Nitroaniline Trichloromonofluoromethane
Chlorobenzilate 1,4-Dioxane p-Nitroaniline 2,4,5-Trichlorophenol
2-Chloro-1,3-butadiene Diphenylamine Nitrobenzene 2,4,6-Trichlorophenol
Chlorodibromomethane Diphenylnitrosamine 5-Nitro-o-toluidine 2,4,5-Trichlorophenoxyacetic soid/2,4

Chlorodibromomethane Diphenylnitrosamine 5-Nitro-o-toluidine 2,4,5-Trichlorophenoxyacetic acid/2,4,5-T Chlorophenokyacetic acid/2,4,

bis(2-Chloroethoxy)methane Disulfoton p-Nitrophenol 1,1,2-Trichloro-1,2,2-trifluoroethane

bis(2-Chloroethyl)ether Dithiocarbamates (total) N-Nitrosodiethylamine Triethylamine

Chloroform Endosulfan I N-Nitrosodimethylamine tris-(2,3-Dibromopropyl)phosphate bis(2-Chloroisopropyl)ether Endosulfan II N-Nitroso-di-n-butylamine Vernolate

bis(2-Chloroisopropyl)ether Endosulfan II N-Nitroso-di-n-butylamine Vernolate

p-Chloro-m-cresol Endosulfan sulfate N-Nitrosomethylethylamine Vinyl chloride

2-Chloroethyl vinyl ether Endrin N-Nitrosomorpholine Xylenes-mixed isomers
Chloromethane/Methyl chloride Endrin aldehyde N-Nitrosopiperidine (sum of o-,m-, and p-xylene concentrations)

2-Chloronaphthalene EPTC N-Nitrosopyrrolidine

<u>Inorganic Constituent</u> <u>Inorganic Constituent</u> <u>Inorganic Constituent</u> <u>Inorganic Constituent</u> <u>Inorganic Constituent</u>

Antimony Cadmium Lead Silver
Arsenic Chromium (Total) Mercury-Nonwastewater from Retort Sulfides
Barium Cyanides (Total) Mercury-All Others Thallium
Beryllium Cyanides (Amenable) Nickel

					<u>_</u>				٦	-				***				,		_							d)		
GE	NERA	TOF	NA	ME:	4	UU	ا رسا	$\bigcirc$	41	<u>()/</u>	Œ	TD)	$\mathbf{C}$	1	EP,	<b>۵</b> J.	D.	#(	${\it +}$	上	$\mathcal{O}$	20		9	1	5	3	ڡ	
	DRES														43.00	1.11				*		1.7	(4)						
اللم	JRES						•								IAN	VIF	ES	Τź	L	<u>ں/</u>	$\odot$	$\mathcal{L}$	7		7	<u>'''</u>	٠,	رر	Ţ
		1	1	ر ر	he	1/1		1	Δ	9	$\boldsymbol{n}$	7	7	ָר ר			۲۰.۱ د.								:		:::		
		, L	وبالجذة	ريب	1.5	41	W		7 . 1 .		LZ.	<u> </u>	<u> </u>	<b>~</b> ::	*****	31229	ζ, .								- 1.		1	ì	

## ~~SEE INSTRUCTIONS (1,2,3 and 4)~~

Pursuant to CCR Title 22, Section 66268.7 (40 CFR 268.7), I hereby notify that this waste shipment contains one or more of the following wastes restricted under the land disposal restriction for which applicable treatment standards are set forth in CCR Title 22. Chapter 18, Land Disposal Restrictions.

Manifest Li Itam Numb		Description/ Subcategory	LDR Waste Notification (Attinu F)	Determination of Waste Disposal (A or B)	Underline Hazardous Constituents (A,B or C)	Waste water or Non Waste water
				2.		*
1	DOOL	Panmable	A	B	C.	WL)
	213	Liquids				
	or a trans	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1994年	te services	3.74
	eriat industria	en er sagg	열하고 그림 그		Principle of the	
4 4 4 4	(国際) は糖汁能をご	35 13 15 15 15 15 15 15 15 15 15 15 15 15 15	<b>施林里上山东江</b>	<b>新新工作等。</b>	. 4 24 3 7 A	gai . Vist da
			<b>多的,自由这条</b>		<b>基的数数</b> 65	
वे अक्षिति अस	<b>全的金融公司</b>	र्ष स्थान । महत्रक्षाम्				
4 34 34 7 8			Marka Lange	OF ALL SOLIS	W. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	ar i dija ii
STATE TO SE	. Nice edinakari	鐵 经营 医经验压缩	<b>使得到的人们,不</b>	Rett High It	在2次120分分型	数 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
表於新知	: <u>188</u> 2	A. 连接的基本。	要基金混合工業			
	Committee Hillings of	ana waka asi			SASALAN TILL. (SS	iliki te salahi.
1-300	的最初的特别与成	A. (1982年) 中央7年1日 福				第7 986 0
10.768第八	· · · · · · · · · · · · · · · · · · ·		\$413.00 per		188 hr 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	3 7 2 2/20 1 3					

If NECESSARY USE A CONTINUATION PAGE.

_		_	
aps.	1	of .	

CER	~~~	~ *	~1~	- 1
1 . HW		: 1		w

I certify under penalty of law that I personally have examined and am familiar with the waste thorough analysis and testing, or through knowledge of the process generating the waste, to support this certification. I believe that the information that I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

Since Exploration 8-20-08

GENERATOR COMPANY NAME

DATE

AUTHORIZED SIGNATURE PRINTED NAME/TITLE

. 1		I WASTE WATER (WW)		<u> </u>		<u> </u>	- 15		<del></del>					~ -
	-	Check to left CUSTOMER: CU						WASTE APPROVAL #304636						
	7000	Check to left WASTE NAME: Hamp			p	able Liquins			EPA#CAVE-000191536					
	Check >	Regulated Constituent Common Name	WW Stardard mg/l	NWW Stardard mg/kg unless TCL	•	Check >	Regulated Constituent Common Name	WW Stardard mg/l	NWW Stardard mg/kg unless TCU	P	Check >	Regulated Constituent Common Name	WW Slardard mg/t	NWW Stardard mg/kg unless TCL
001 002		Acenaphthylene Acenaphthene	0.059		4 073 4 074	<u>.                                    </u>	1-1 Dichlorethylene trans-1,2-Dichloroethylene	0.025		6 14		5-Nitro-o-toluidine	0.32	<u>-</u>
003		Acetona	0.26	16	0 075	4	2,4-Dichlorophenol	0.054 0.044		0 14 4 14		o-Nitrophenol p-Nitrophenol	0.028	
004		Acetonitrile Acetophenone	5.6		8 076 7 077	-	2,5-Dichloropheno: 2,4-Dichlorophenoxyacetic acid/2,4-D	0.044		4 14		N-Nitrosodiethylamine	0.4	
006		2-Acetylaminofluorene	0.059		078	-	1,2-Dichioropropane	0.72 0.85		0 14 8 15		N-Nitrosodiamethylamine N-Nitroso-di-n-bulylamine	0.4	2
007	-	Acrolein Acrylamide	0.29		079 3 080	1	cis-1,3-Dichloropropylene	0.036		8 15		N-Nitrosomethylethylamine	0.4	I
009	_	Acrylonitrie	0.24	.I	4 081	1	trans-1,3-Dichloropropylene Dieldrin	0.036		8 15 3 15		N-Nitrosomorpholine N-Nitrosopiperidine	0.4	2
010		Aidrin 4-Aminobiphenyl	0.021		082	·	Diethyl phthalate	0.2	2	8 15		N-Nitrosopymolidine	0,013	
012		Anitine	0.13		083		p-Dimethylaminoazobenzene 2-4-Dimethyl phenol	0.13		A 15		Parathion Total PCBs	0.014	4
013 014		Anthracene	0.059		085	<b></b>	Dimethyl phthalale	0.047	2	8 15	4	Pentachiorobenzene	0.055	
015		Aramita alpha-8HC	0.36		086	<u> </u>	Di-n-butyl phthalate 1,4 Dinitrobenzene	0.057		8 156 3 159		Pentachlorodibenzo-p-dioxins	0.000063	0.00
016		beta-BHC	0.00014	0.066	088		4,6-Dinitro-o-cresol	0.28	16	0 180	1	Pentachlorodibenzo-furans Pentachloroethans	0.000035	0.00
017 018		delta-8HC gamma-8HC	0.023		089		2,4-Dirutrophenol 2,4-Dirutrotokuene	0.12 0.32	16		ž	Peniachioronitrobenzene	0.055	4.
019		Benzene	0.14	10	091		2,6-Dinitrotoluane	0.32		0 162 8 163	_	Pentachkorophenol Phenacetin	0.089	7.
020		Benz(a)anthracene Benzal chloride	0.059		092 093	_	Di-n-octyl phthalate Di-n-propylnitrosamine	0.017		8 164		Phenanttrene	0.059	5.
022		Benzo(b) flouranthene	0.11	6.8	094		1,4-Dioxane	0.4		4 165 0 166		Phenol Phorate	0.039	6. 4.
023 024	_	Benzo(k) flouranthene Benzo(g,h,i)perylene	0.11		095 096		Diphenylamine Olehenylamine	0,92	1:	167		Phthalic acid	0.05\$	2
025		Benzo(a) pyrene	0.061		097		Diphenyinitrosamine 2,1-Diphenyihydrazine	0.92		168		Phihalic anhydride Pronamide	0.055	2
026 027	_	Bromodichloromethane Bromomethane/Methyl bromide	0.35 0.11		098		Disulfoton	0.017	6.3	170		Pyrene	0.057	1. 8.
028		l-Bromophenyl phenyl ether	0.055		100		Endosulfan I Endolsulfan II	0.023	0.06	171 172		Pyridine Safrole	0.014	1
029 030		i-Butyl aicohol	5.6		101		Endosulfan sulfate	0.029		173		Silvex/2,4,5-TP	0.081	. 2 7.
031		Butyl benzyl phthalate 2-sec-Butyl-4,6 dkutrophenovDir	0.017 0.066	28 2.5			Endrin Endrin aldehyde	0.0028		174 175		1,2,4,50-Tetrachlorebenzene	0.055	1
032		arbon disulfide	3.8	4.8 mg/LTCLP	104		Ethyl Acetate	0.34		176		Yetrachlorodi-benzo-p-dioxins Tetrachlorodibenzofurans-	0.00063	0.00 0.00
033 034		Carton tetrachloride Nordana (alpha and gamma isomars)	0.057 0.0033	0.26	105 106	-	Ethyl benzene Ethyl cyanide/Propanenitrile	0.057 0.24		177		1,1,1,2-Tetrachlorethane	0.057	
35	5	-Chloroaniline	0.46	16	107		Ethyl other	0.12		178		1,1,2,2-Tetrachloroethane Tetrachloroethylene	0.057 0.056	(
)36 )37	_	Chlorobenzene Chlorobenzilate	0.057		108 109		ois(2-Ethylhexyl) phthalate Ethyl methacrylate	0.28		160		2,3,4,6-Teirachiorophenol	0.03	7.4
38	2	-Chloro-1,3-butadiene	0.057		110		thylene cxide	0.14	160 NA	181		Toluene Toxaphene	0.0095	2.6
39		hlorodibromomethane hloroethane	0.057	15 6	111 112	_	subpnt.	0.017	15	183		Inbromomethane/Bromoform	0.63	1:
41		is(2-Chloroethoxy)methane	0.036		113		louranthene luorene	0.068	3.4			1,2,4 Trichlorobenzene 1,1,1-Trichloroethane	0.055 0.054	19
42 43		is(2-Chloroethyl)ether hloroform	0.033	6			leptachlor	0.0012	0.066	186		1,1,2-Trichloroethane	0.054	
44	-	is(2-Chloroisopropyi)ether	0.046		115 116		leptachlor epoxide lexachlorobenzene	0.016 0.055		187 188		Frichloroethylene Frichloromonofluoromethane	0.054	(
45 46		-Chloro-m-cresol -Chloroethyl vinyl ether	0.018	14	117	- 1	lexachlorobutadiene	0.055		189		2,4,5-Trichlorophenol	0.02 0.18	30 7.4
47		hiorometrane/Methyl chloride	0.062		118 119		lexachiorocyclopentadiene lexachlorodibenzo-p-dioxina & furans	0.057		190 191		2,4,6-Trichlorophenol	0.035	7.4
48		chkronaphinalene Chkroshanol	0.055	5.6	120	ŀ	iexachloroethane	0.055	30	192		1,4,5-Trichiorophenoxyacese acid/2,4,5T 1,2,3-Trichioropropane	0.72 0.85	7.9 30
49 50		Chlorophenol Chloropropylene	0.044		121 122		exachloropropylene ideno (1,2,3-c,d) pyrene	0.035 0.0055		193 194		,1,2 Trichloro-1,2,2,trifloroethans	0.057	30
51	C	hrysene	0.059	3,4	123	k	comethane	0.19		195		ris(2,3 Dibromopropyl) phosphate /inyl chloride	0.11	0.1 6
52 53		-Cresol -Cresol	0.11		124 125		sobutyl alcohol octrin	5.6 0.021	170	196	7	(ylenes-Total	0.32	30
54	p	Cresoi	0.77	5.6	126		osalmie	0.021	0.066 2.6	197 198		Antimony Visenic	1.9	2.1mg/lTCLP 5.0mg/lTCLP
55 56		yclohexanone yclohexanone	0.36	0.75mg/i TCLP 0.087			epone lettracoulouirole	0.0011	0.13	199	E	lanum	1.2	7.6mg/f TCLP
57	p.	p'-DD0	0.023		129		lethacrylonitnle lethanol	0.24 5.6	84 0.75mg/l TCLP	200		Beryllium Cadmium	0.85 0.69	0.014mg/LTCLP 0.19mg/LTCLP
58 59	_	p'-DDE p'-DDE	0.031	0.087			lathapyrilene	0.081	1.5	202		homium (Total)	2.77	0.19mg/ITCLP 0.86mg/ITCLP
50		p-DOT	0.031	0.087 0.087			lethoxychlor Methylcholanthrens	0,25 0,0055	0.18 15	203 204		yanide (Total) yanide (Amenable)	1.2	590
51 52		p'-DDT	0.0039	0.087	133	4.	4-Methylene bis(2-chloroaniline)	0.5	30	205		ounde	0.86 35	30 NA
3		benz(a,h)anthracene ebenz(a,e)pyrene	0,055 0,061	8.2 NA	134 135		ethylene chloride ethyl ethyl kelone	0.089		206 207		ead	0.69	0.37mg/t TCLP
4	1,	2-Dibromo-3-chloropropane	0.11	15	136	М	ethyl isobutyl kelone	0.14		208		lercury-Nonwastewater from Retort lercury-All Others	NA 0.15	0.20mg/LTCLP 0.025mg/LTCLP
6		-Obromoethane/ethylene doromide   bromomethane	0.028	15 15			ethyl methacrylate ethyl methansulfonate	0.14	160	209	N	lickel	3,98	5.0mg/ITCLP
7	II)	Dichlorobenzene	0.036	6	139		ethyl parathion	0.018		210 211	_	elenium ilver	0.82	0.16mg/TCLP 0.30mg/LTCLP
9		Dichlorobenzena Dichlorobenzena	0.088	6	140		ophthalene Nanhbus	0.059	5.6	212	ŝ	ulide	14	NA
0	Die	chlorodifluoromethane	0.23	7.2	142		Naphthylamine Nisoansline	0.52 0.27		213 214		halirum anadium	1.4 4.3	0.078mg/ITCLP 0.23mg/ITCLP
$\mathbf{T}$	-11.3	-Dichloroethane	0.059	6		P	Nitroanline	0.028		215		inc	2.51	5.3mg/LTCLP



Gen	erator: SPACE	EXPLORATION TECH.	U.S. EP.	A I.D. #: <u>CAR</u>	<u>R000191536</u>		
Prof	île # 389948-00		Manifest #:	000697922JJK			
268,	wastes identified on this Subpart D or do not me entified below (check all	et the applicable prohibition le	isposal restrictions vels specified in 2	s of 40 CFR Part 68.32. Pursuant	t 268. The wastes do not meet the treatment stand to 40 CFR 268.7(a), the required information app	lards specificable to ea	
		Treatability Grou (Wastewaters contain le		□ Wastewater ble solids and les	Nonwastewater ss than 1% Total Organic Carbon)		
X 	D001 High TOC Ignitable (greater than 10% total organic carbon)  D002 Corrosive managed in non-CWA/non-CWA-equivalent/non Class I SDWA systems (Complete form UC)  D002 Corrosive managed in CWA/ CWA-equivalent/Class I SDWA systems  D003 Reactive Sulfides based on 261.23(a)(5)  D003 Reactive Cyanides based on 261.23(a)(5)  D003 Water Reactives based on 261.23(a)(2),(3) and (4) managed in non-CWA/non-CWA-equivalent/non Class I SDWA systems (Complete form D003 Water Reactives based on 261.23(a)(2),(3) and (4) managed in CWA/ CWA-equivalent/Class I SDWA systems						
If DO	04-43 boxes are checked, c A systems):	omplete and attach Form UC to ac	ldress underlying ha	zardous constituen	nts (unless these wastes are to be managed in CWA/CW	<sup>7</sup> A-equivalent/	
	D009 High-mercury org D009 Low-mercury (<2 D010 Selenium D012 Endrin D013 Lindane D014 Methoxychlor D015 Toxaphene D016 2,4-D D017 2,4,5-TP (Silvex) D018 Benzene D019 Carbon tetrachlor D020 Chlordane D021 Chlorobenzene D022 Chloroform	D008 Lead  rganic (>260 mg/kg total), includentic (>260 mg/kg total), not includentic (>260 mg/kg total)  □ D011 Silver □ D023 o-Cresol □ D024 m-Cresol □ D025 p-Cresol □ D026 Cresols (70 □ D027 p-Dichlor □ D028 1,2-Dichlor □ D029 1,1-Dichlor □ D030 2,4-Dinitr □ D031 Heptachlor □ D032 Hexachlor	Cotal) Cotal) Cotal) Cotale Co	d batteries esidue and residue residue  D033 Hexa D034 Hexa D035 Meth D036 Nitro D037 Penta D038 Pyrio D039 Tetra Trichloroethyl D041 2,4,5 D042 2,4,6 D043 Viny	achlorobutadiene achloroethane hyl ethyl ketone obenzene achlorophenol dine achloroethylene lene 5-Trichlorophenol d-Trichlorophenol		
Note:		e checked, form UC must be comess or unless otherwise noted abo		inderlying hazard	dous constituents, unless the material is treated in a G	Clean Water A	
In ad	dition, the following v	vastes are included in this sh	ipment:				
xx ]	F001-F005 spent solve	ents. (If this box is checked, comp	lete the F001-F005	section on the back	k of this form. Check the hazardous waste number(s) th	at applies, and	
	ify the constituents likely to						
		dditional waste codes that			MEDIC TO ASSESSMENT OF THE STATE OF THE STAT		
EPA	Waste Code	Subcategory (if applicable)	EPA Wa	aste Code	Subcategory (if applicable)		

This is a two sided form

F001-F005 Spent Solvents
Check the box(es) that applies; identify the individual constituents likely to be present.

zardous waste description	Regulated hazardous constituents	Regulated hazardous constituents					
F001 Spent halogenated solvents used in degreasing	Carbon tetrachloride Tetrachloroethylene Trichloroethylene Trichloromonofluoromethane	Methylene chloride 1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane					
F002 Spent halogenated solvents	Chlorobenzene Methylene chloride 1,1,1-Trichloroethane Trichloroethylene Trichloromonofluoromethane	o-Dichlorobenzene Tetrachloroethylene 1,1,2-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane					
F003 Spent non-halogenated solven	ts Acetone Cyclohexanone* Ethyl benzene Methanol* Xylenes (total)	n-Butyl alcohol Ethyl acetate Ethyl ether Methyl isobutyl ketone					
F004 Spent non-halogenated solven	ts <i>m</i> -Cresol <i>p</i> -Cresol  Nitrobenzene	o-Cresol Cresol-mixed isomers (cresylic acid)					
F005 Spent non-halogenated solven	ts Benzene 2-Ethoxyethanol Methyl ethyl ketone Pyridine	Carbon disulfide* Isobutyl alcohol 2-Nitropropane Toluene					
ne treatment standards for carbon disu ntaining only one, two, or all three of nstituents are present in the waste.  zardous Debris	lfide, cyclohexanone, and methanol nonwaste these constituents. The treatment standards fo	waters are based on the TCLP and apply to spent solvent nonwastew or these three constituents do not apply when any of the other F001-F					
This shipment contains hazardous debris that will be treated to comply with the alternative treatment standards of 268.45 (e.g., macroencapsulation or at blasting).							
e definitions of "debris" and "ha ject to treatment." To determine t	zardous debris" are in 40 CFR 268.2. Pe hese, look up the waste code in 268.40 a.	er 268.45, hazardous debris must be treated for each "contam nd list the regulated hazardous constituents for each code.)					
contaminants subject to treatment for	this debris are identified below:						
A Waste Code Subcategory	Contaminants subject to trea	<u></u>					
	F001 Spent halogenated solvents used in degreasing  F002 Spent halogenated solvents  F003 Spent non-halogenated solvent  F004 Spent non-halogenated solvent  F005 Spent non-halogenated solvent  the treatment standards for carbon disuntaining only one, two, or all three of instituents are present in the waste.  zardous Debris  This shipment contains hazardous deblasting).  the definitions of "debris" and "havingect to treatment." To determine the contaminants subject to treatment for	F001 Spent halogenated solvents used in degreasing  F002 Spent halogenated solvents  F002 Spent halogenated solvents  F003 Spent non-halogenated solvents  F004 Spent non-halogenated solvents  F005 Spent non-halogenated solvents  F006 Spent non-halogenated solvents  F007 Spent non-halogenated solvents  F008 Spent non-halogenated solvents  F009 Spent non-halogenated solvents  F009 Spent non-halogenated solvents  F009 Spent non-halogenated solvents  F009 Spent non-halogenated solvents  F000					

	Generator: SPACE EXPLORATION TECH. U.S. EPA I.D. #:CAR000191536
	Profile #: 389948-00 Manifest #: <u>000697922JJK</u>
	In accordance with 40 CFR 268.7(a), the underlying hazardous constituents must be addressed in this waste. Per 268.2(i), "underlying hazardous constituent" means any constituent listed in 268.48, Table UTS—Universal Treatment Standard which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. Refer to Form-EZ (attached) for the waste code(s), treatability group, and subcategory applicable to this waste.
	In order to address underlying hazardous constituents in characteristic wastes, please check the appropriate box:
]	I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that there are no underlying hazardous constituents reasonably expected to be present in this waste.
K	I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that underlying hazardous constituents are present in this waste. The underlying hazardous constituents are identified as follows:
The	e determination of underlying hazardous constituents was based on:
ζ.	Generator's knowledge of the waste
⊐	Analysis
	I certify that I personally have examined and am familiar with the waste through analysis and testing, or through knowledge of the waste to support this certification. I certify that as an authorized representative of the generator named above, all the information submitted in this notification is true and correct to the best of my knowledge.
] Pri	aceli Pradriguez De B. on Behalf of 3/20/08  nted Name Signature Space Ex. Date

List of Underlying Hazardous Constituents 40 CFR 268.48

Circle or otherwise identify the underlying hazardous constituents present in the waste

Circle or otherwise identify the underlying hazardous constituents present in the waste:					
Organic Constituent	Organic Constituent	Organic Constituent	Organic Constituent		
A2213	2-Chlorophenol	Ethyl acetate	Oxamyl		
Acenaphthylene	3-Chloropropylene	Ethyl benzene	Parathion		
Acenaphthene	Chrysene	Ethyl cyanide/Propanenitrile	Total PCBs(sum of all isomers, or all		
Aroclors)	•	,	1 other 1 of the following, of the		
Acetone	o-Cresol	Ethyl ether	Pebulate		
Acetonitrile	m-Cresol	bis(2-Ethylhexyl)phthalate	Pentachlorobenzene		
Acetophenone	p-Cresol	Ethyl methacrylate	PeCDDs(All Pentachlorodibenzo-p-dioxi		
2-Acetylaminofluorene	m-Cumenyl methylcarbamate	Ethylene oxide	PeCDFs(All Pentachlorodibenzofurans)		
Acrolein	Cyclohexanone	Famphur	Pentachloroethane		
Acrylamide	o,p'-DDD	Fluoranthene	Pentachloronitrobenzene		
Acrylonitrile	p,p'-DDD	Fluorene	Pentachlorophenol		
Aldicarb sulfone	o,p'-DDE	Formetanate hydrochloride	Phenacetin		
Aldrin	p,p'-DDE	Formparanate	Phenanthrene		
4-Aminobiphenyl	o,p'-DDT	Heptachlor	Phenol		
Aniline	p,p'-DDT	Heptachlor epoxide	o-Phenylenediamine		
Anthracene	Dibenz(a,h)anthracene	Hexachlorobenzene	Phorate		
Aramite	Dibenz(a,e)pyrene	Hexachlorobutadiene	Phthalic acid		
alpha-BHC	1,2-Dibromo-3-chloropropane	Hexachlorocyclopentadiene	Phthalic anhydride		
beta-BHC	1,2-Dibromoethane/Ethylene dibromide	HxCDDs(All Hexachlorodibenzo-p-dioxin	s)Physostigmine		
delta-BHC	Dibromomethane	HxCDFs(All Hexachlorodibenzofurans)	Physostigmine salicylate		
gamma-BHC	m-Dichlorobenzene	Hexachloroethane	Promecarb		
Barban	o-Dichlorobenzene	Hexachloropropylene	Pronamide		
Bendiocarb	p-Dichlorobenzene	Indeno(1,2,3-c,d)pyrene	Propham		
Bendiocarb phenol	Dichlorodifluoromethane	Iodomethane	Propoxur		
Benomyl	1,1-Dichloroethane	Isobutyl alcohol	Prosulfocarb		
Benzene	1,2-Dichloroethane	Isodrin	Pyrene		
Benz(a)anthracene	1,1-Dichloroethylene	Isolan	Pyridine		
Benzal chloride	trans-1,2-Dichloroethylene	Isosafrole	Safrole		
Benzo(b)fluoranthene	2,4-Dichlorophenol	Kepone	Silvex/2,4,5-TP		
Benzo(k)fluoranthene	2,6-Dichlorophenol	Methacrylonitrile	1,2,4,5-Tetrachlorobenzene		
Benzo(g,h,i)perylene	2,4-Dichlorophenoxyacetic acid/2,4-D	Methanol	TCDDs(All Tetrachlorodibenzo-p-dioxins		
Benzo(a)pyrene	1,2-Dichloropropane	Methapyrilene	TCDFs(All Tetrachlorodibenzofurans)		
Bromodichloromethane	cis-1,3-Dichloropropylene	Methiocarb	1,1,1,2-Tetrachloroethane		
Bromomethane/Methyl bromide	trans-1,3-Dichloropropylene	Methomyl	1,1,2,2-Tetrachloroethane		
4-Bromophenyl phenyl ether	Dieldrin	Methoxychlor	Tetrachloroethylene		
n-Butyl alcohol	Diethylene glycol, dicarbamate	3-Methylcholanthrene 2,3,4,6-T	etrachlorophenol		
Butylate	Diethyl phthalate	4,4-Methylene-bis(2-chloroaniline)	Thiodicarb		
Butyl benzyl phthalate	p-Dimethylaminoazobenzene	Methylene chloride	Thiophanate-methyl		
2-sec-Butyl-4,6-dinitrophenol/Dinoseb	2,4-Dimethyl phenol	Methyl ethyl ketone	Tirpate		
Carbaryl	Dimethyl phthalate	Methyl isobutyl ketone	Toluene		
Carbenzadim	Dimetilan	Methyl methacrylate	Toxaphene		
Carbofuran	Di-n-butyl phthalate	Methyl methansulfonate	Triallate		
Carbofuran phenol	1,4-Dinitrobenzene	Methyl parathion	Tribromomethane/Bromoform		
Carbon disulfide	4,6-Dinitro-o-cresol	Metolcarb	2,4,6-Tribromophenol		
Carbon tetrachloride	2,4-Dinitrophenol	Mexacarbate	1,2,4-Trichlorobenzene		
Carbosulfan	2,4-Dinitrotoluene	Molinate	1,1,1-Trichloroethane		
Chlordane (alpha and gamma isomers)	2,6-Dinitrotoluene	Naphthalene	1,1,2-Trichloroethane		
<i>p</i> -Chloroaniline	Di-n-octyl phthalate	2-Naphthylamine	Trichloroethylene		
Chlorobenzene	Di-n-propylnitrosamine	o-Nitroaniline	Trichloromonofluoromethane		
Chlorobenzilate	1,4-Dioxane	p-Nitroaniline	2,4,5-Trichlorophenol		
2-Chloro-1,3-butadiene	Diphenylamine	Nitrobenzene	2,4,6-Trichlorophenol		
Chlorodibromomethane	Diphenylnitrosamine	5-Nitro-o-toluidine	2,4,5-Trichlorophenoxyacetic acid/2,4,5-T		
Chloroethane	1,2-Diphenylhydrazine	o-Nitrophenol	1,2,3-Trichloropropane		
bis(2-Chloroethoxy)methane	Disulfoton	p-Nitrophenol	1,1,2-Trichloro-1,2,2-trifluoroethane		
bis(2-Chloroethyl)ether	Dithiocarbamates (total)	N-Nitrosodiethylamine	Triethylamine		
Chloroform	Endosulfan I	N-Nitrosodimethylamine	tris-(2,3-Dibromopropyl)phosphate		
bis(2-Chloroisopropyl)ether	Endosulfan II	N-Nitroso-di-n-butylamine	Vernolate		
p-Chloro-m-cresol	Endosulfan sulfate	N-Nitrosomethylethylamine	Vinyl chloride		
2-Chloroethyl vinyl ether	Endrin	N-Nitrosomorpholine	Xylenes-mixed isomers		
Chloromethane/Methyl chloride	Endrin aldehyde	N-Nitrosopiperidine	(sum of o-,m-, and p-xylene		
concentrations)	7782				
2-Chloronaphthalene	EPTC	N-Nitrosopyrrolidine			
Inogranic Constituent	Inorganic Constituent	Inorganic Constituent	Inorganic Constituent		
Antimony	Cadmium	Lead	Silver		
Arsenic	Chromium (Total)	Mercury-Nonwastewater from Retort	Sulfides		

Chromium (Total)

Cyanides (Total)

Cyanides (Amenable)

Arsenic

Barium

Beryllium

Sulfides

Thallium

Mercury-Nonwastewater from Retort

Mercury-All Others

Nickel



# Rho Chem Corporation, a wholly owned subsidiary of PHILIP SERVICES CORP., RCRA Land Disposal Restriction Notification Form EZ

Gen	nerator:	SPACE EXPLO	RATION TECH.	U.S. EPA	I.D. #:_	CAR00019	1536	
Pro	file # 390575	-00, 390574-00		Manifest #	·	000697935	<u>JJK</u>	
268	, Subpart D	ified on this form a or do not meet the a w (check all boxes	pplicable prohibition levels	sal restrictions of specified in 268	f 40 CF 3.32. Pu	R Part 268. The resuant to 40 (	The wastes do not meet the treatment standards spec CFR 268.7(a), the required information applicable to	cifie o ea
			Treatability Group: Wastewaters contain less th		Waste solids		Nonwastewater 1% Total Organic Carbon)	
	Comp D001 Ignita D001 High D002 Corro D003 React D003 React D003 Water D003 Water	lete form UC, unleted ble (except for High TOC Ignitable (greated basive managed in notice Sulfides based of the Cyanides based of Reactives Based	on 261.23(a)(5)	de and the waste CWA-equivalent carbon) alent/non Class I SDWA system managed in nor anaged in CWA	is to be Class I I SDW	e combusted of SDWA system  (A systems (C)  (non-CWA-e	or recovered.) oms Complete form UC) quivalent/non Class I SDWA systems (Complete f	- Corm
If DO SDW	004-43 boxes a 'A systems):	re checked, complete	and attach Form UC to addres.	s underlying haza	rdous co	nstituents (unle	ess these wastes are to be managed in CWA/CWA-equival	ent/(
000000000000000	D009 High-i D009 Low-i D010 Seleni D012 Endr D013 Linda D014 Meth D015 Toxa D016 2,4-D D017 2,4,5- D018 Benze D019 Carbe D020 Chlor D021 Chlor D022 Chlor	mium D000 mercury inorganic (2 mercury organic (>2 mercury (<260 mg/ um in nne oxychlor phene TP (Silvex) ene on tetrachloride dane obenzene oform	B Lead □ □ □  >260 mg/kg total), including  :60 mg/kg total), not including  :60 mg/kg total), not including  :kg total) □ □  □ D011 Silver □ D023 o-Cresol □ D024 m-Cresol □ D025 p-Cresol □ D026 Cresols (Total □ D027 p-Dichloroben □ D028 1,2-Dichloroben □ D029 1,1-Dichloroet □ D030 2,4-Dinitrotole □ D031 Heptachlor □ D032 Hexachlorobe	ng incinerator re  0009 All D009 v    Comparison of the comparison	D033	d residues from ters  Hexachlore Hexachlore Methyl eth Nitrobenze Pentachlore Pridine Tetrachlore Coethylene 2,4,5-Trich 2,4,6-Trich	obutadiene pethane yl ketone ne ophenol oethylene llorophenol lorophenol	
Note:			ed, form UC must be complete less otherwise noted above.	ed to address uno	lerlying	hazardous co	nstituents, unless the material is treated in a Clean Wat	ter A
In ac	ddition, the	following wastes a	are included in this shipm	ent:				
				he F001-F005 sec	tion on i	the back of this	form. Check the hazardous waste number(s) that applies,	and
		ents likely to be prese						
			al waste codes that are					
EPA	Waste Cod	e Subcat	egory (if applicable)	EPA Wast	e Code	<u>≥ Sı</u>	<u>lbcategory</u> (if applicable)	

This is a two sided form

Form EZ Revised 04/18/2007

Hazardous waste description		<u>on</u>	Regulated hazardous constituents		
	F001 Spent halogenated used in degreasin		Carbon tetrachloride Tetrachloroethylene Trichloroethylene Trichloromonofluoromethane	Methylene chloride 1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane	
	F002 Spent halogenated	I solvents	Chlorobenzene Methylene chloride 1,1,1-Trichloroethane Trichloroethylene Trichloromonofluoromethane	o-Dichlorobenzene Tetrachloroethylene 1,1,2-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane	
	F003 Spent non-haloger	nated solvents	Acetone Cyclohexanone* Ethyl benzene Methanol* Xylenes (total)	n-Butyl alcohol Ethyl acetate Ethyl ether Methyl isobutyl ketone	
	F004 Spent non-haloger	nated solvents	<i>m</i> -Cresol <i>p</i> -Cresol Nitrobenzene	o-Cresol Cresol-mixed isomers (cresylic acid)	
	F005 Spent non-haloger	nated solvents	Benzene 2-Ethoxyethanol Methyl ethyl ketone Pyridine	Carbon disulfide* Isobutyl alcohol 2-Nitropropane Toluene	
co 	ne treatment standards for	carbon disulfide, c all three of these c	2-Ethoxyethanol Methyl ethyl ketone Pyridine cyclohexanone, and methanol nonw	Isobutyl alcohol 2-Nitropropane Toluene astewaters are based on the TCLP and apply to spent solvent nonwasten	
co 	ne treatment standards for ntaining only one, two, or nstituents are present in th zardous Debris	carbon disulfide, c all three of these c ne waste.	2-Ethoxyethanol Methyl ethyl ketone Pyridine  cyclohexanone, and methanol nonw constituents. The treatment standard	Isobutyl alcohol 2-Nitropropane Toluene astewaters are based on the TCLP and apply to spent solvent nonwastew ds for these three constituents do not apply when any of the other F001-1	
Ha:	ne treatment standards for ntaining only one, two, or nstituents are present in the zardous Debris  This shipment contains h blasting).  The definitions of "debris"	carbon disulfide, c all three of these c ne waste. azardous debris the	2-Ethoxyethanol Methyl ethyl ketone Pyridine  eyclohexanone, and methanol nonw constituents. The treatment standard at will be treated to comply with the us debris" are in 40 CFR 268.2	Isobutyl alcohol 2-Nitropropane Toluene astewaters are based on the TCLP and apply to spent solvent nonwastem ds for these three constituents do not apply when any of the other F001-1	
Ha:	ne treatment standards for ntaining only one, two, or nstituents are present in the zardous Debris  This shipment contains h blasting).  The definitions of "debris"	carbon disulfide, call three of these can be waste.  azardous debris the call three of these can be waste.	2-Ethoxyethanol Methyl ethyl ketone Pyridine eyclohexanone, and methanol nonwetonstituents. The treatment standard at will be treated to comply with the us debris" are in 40 CFR 268.2 look up the waste code in 268.4	Isobutyl alcohol 2-Nitropropane Toluene astewaters are based on the TCLP and apply to spent solvent nonwastew ds for these three constituents do not apply when any of the other F001-I  e alternative treatment standards of 268.45 (e.g., macroencapsulation or a	

# Rho Chem Corporation, a wholly owned subsidiary of PHILIP SERVICES CORP., RCRA Land Disposal Restriction Notification Form UC

Generator: SPACE EXPLORATION TECH. U.S. EPA I.D. #:CAR000191536

	Profile #: 390575-00, 390574-00 Manifest #: 000697935JJK
	In accordance with 40 CFR 268.7(a), the underlying hazardous constituents must be addressed in this waste. Per 268.2(i), "underlying hazardous constituent" means any constituent listed in 268.48, Table UTS—Universal Treatment Standard which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. Refer to Form-EZ (attached) for the waste code(s), treatability group, and subcategory applicable to this waste.
	In order to address underlying hazardous constituents in characteristic wastes, please check the appropriate box:
	I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that there are no underlying hazardous constituents reasonably expected to be present in this waste.
x	I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that underlying hazardous constituents are present in this waste. The underlying hazardous constituents are identified as follows:
The	determination of underlying hazardous constituents was based on:
ζ.	Generator's knowledge of the waste
コ	Analysis
	I certify that I personally have examined and am familiar with the waste through analysis and testing, or through knowledge of the waste to support this certification. I certify that as an authorized representative of the generator named above, all the information submitted in this notification is true and correct to the best of my knowledge.
Δγ Prin	mosti Radriguez De 3- on Rehalf 9/4/08  Signature Space Ex. Date
	·

#### List of Underlying Hazardous Constituents 40 CFR 268.48

Circle or otherwise identify the underlying hazardous constituents present in the waste:

Organic Constituent Organic Constituent Organic Constituent Organic Constituent 2-Chlorophenol A2213 Ethyl acetate Oxamyl Acenaphthylene 3-Chloropropylene Ethyl benzene Parathion Acenaphthene Ethyl cyanide/Propanenitrile Chrysene Total PCBs(sum of all isomers, or all Aroclors)

Acetoneo-CresolEthyl etherPebulateAcetonitrilem-Cresolbis(2-Ethylhexyl)phthalatePentachlorobenzene

Acetophenone p-Cresol Ethyl methacrylate PeCDDs(All Pentachlorodibenzo-p-dioxii

2-Acetylaminofluorene m-Cumenyl methylcarbamate Ethylene oxide PeCDFs(All Pentachlorodibenzofurans) Acrolein Cyclohexanone Famphur Pentachloroethane Acrylamide o,p'-DDD Fluoranthene Pentachloronitrobenzene p,p'-DDD Acrylonitrile Fluorene Pentachlorophenol Aldicarb sulfone o,p'-DDE Formetanate hydrochloride Phenacetin Aldrin p,p'-DDE Formparanate Phenanthrene o,p'-DDT

4-Aminobiphenyl o,p'-DDT Heptachlor Phenol
Aniline p,p'-DDT Heptachlor epoxide o-Phenylenediamine

Anthracene Dibenz(a,h)anthracene Hexachlorobenzene Phorate
Aramite Dibenz(a,e)pyrene Hexachlorobutadiene Phthalic acid
alpha-BHC 1,2-Dibromo-3-chloropropane Hexachlorocyclopentadiene Phthalic anhydride
beta-BHC 1,2-Dibromoethane/Ethylene dibromide HxCDDs(All Hexachlorodibenzo-p-dioxins)Physostigmine

 delta-BHC
 Dibromomethane
 HxCDFs(All Hexachlorodibenzofurans)
 Physostigmine salicylate

 gamma-BHC
 m-Dichlorobenzene
 Hexachloroethane
 Promecarb

Hexachloroethane Promecarb Barban o-Dichlorobenzene Hexachloropropylene Pronamide p-Dichlorobenzene Bendiocarb Indeno(1,2,3-c,d)pyrene Propham Bendiocarb phenol Dichlorodifluoromethane Iodomethane Propoxur 1,1-Dichloroethane Benomyl Isobutyl alcohol Prosulfocarb Benzene 1.2-Dichloroethane Isodrin Pyrene Benz(a)anthracene 1,1-Dichloroethylene Isolan Pyridine Benzal chloride trans-1,2-Dichloroethylene Isosafrole Safrole

Benzo(b)fluoranthene 2,4-Dichlorophenol Kepone Silvex/2,4,5-TP
Benzo(k)fluoranthene 2,6-Dichlorophenol Methacrylonitrile 1,2,4,5-Tetrachlorobenzene

Benzo(g,h,i)perylene 2,4-Dichlorophenoxyacetic acid/2,4-D Methanol TCDDs(All Tetrachlorodibenzo-p-dioxins Benzo(a)pyrene 1,2-Dichloropropane Methapyrilene TCDFs(All Tetrachlorodibenzofurans)

Bromodichloromethane cis-1,3-Dichloropropylene Methiocarb 1,1,2-Tetrachloroethane
Bromomethane/Methyl bromide trans-1,3-Dichloropropylene Methomyl 1,1,2-Tetrachloroethane
4-Bromophenyl phenyl ether Dieldrin Methoxychlor Tetrachloroethylene

n-Butyl alcoholDiethylene glycol, dicarbamate3-Methylcholanthrene2,3,4,6-TetrachlorophenolButylateDiethyl phthalate4,4-Methylene-bis(2-chloroaniline)Thiodicarb

Butyl benzyl phthalate p-Dimethylaminoazobenzene Methylene chloride Thiophanate-methyl

2-sec-Butyl-4,6-dinitrophenol/Dinoseb 2,4-Dimethyl phenol Methyl ethyl ketone Tirpate
Carbaryl Dimethyl phthalate Methyl isobutyl ketone Toluene
Carbenzadim Dimetilan Methyl methacrylate Toxaphene
Carbofuran Di-z-hutyl phthalate Methyl methansulfonate Triallate

Carbofuran Di-n-butyl phthalate Methyl methansulfonate Triallate Carbofuran phenol 1,4-Dinitrobenzene Methyl parathion Tribromomethane/Bromoform Carbon disulfide 4,6-Dinitro-o-cresol Metolcarb 2.4.6-Tribromophenol Carbon tetrachloride 2,4-Dinitrophenol Mexacarbate 1,2,4-Trichlorobenzene Carbosulfan 2,4-Dinitrotoluene Molinate 1,1,1-Trichloroethane Chlordane (alpha and gamma isomers) 2,6-Dinitrotoluene Naphthalene 1,1,2-Trichloroethane

p-Chloroaniline Di-n-octyl phthalate 2-Naphthylamine Trichloroethylene Chlorobenzene Di-n-propylnitrosamine o-Nitroaniline Trichloromonofluoromethane 1,4-Dioxane Chlorobenzilate p-Nitroaniline 2,4,5-Trichlorophenol 2-Chloro-1,3-butadiene Diphenylamine Nitrobenzene 2,4,6-Trichlorophenol

Chlorodibromomethane Diphenylnitrosamine 5-Nitro-o-toluidine 2,4,5-Trichlorophenoxyacetic acid/2,4,5-T Chloroethane 1,2-Diphenylhydrazine o-Nitrophenol 1,2,3-Trichloropropane

bis(2-Chloroethoxy)methane Disulfoton p-Nitrophenol 1,1,2-Trichloro-1,2,2-trifluoroethane bis(2-Chloroethyl)ether Dithiocarbamates (total) N-Nitrosodiethylamine Triethylamine

Chloroform Endosulfan I N-Nitrosodimethylamine tris-(2,3-Dibromopropyl)phosphate

bis(2-Chloroisopropyl)ether Endosulfan II N-Nitroso-di-n-butylamine Vernolate
p-Chloro-m-cresol Endosulfan sulfate N-Nitrosomethylethylamine Vinyl chloride

2-Chloroethyl vinyl ether Endrin N-Nitrosomorpholine Xylenes-mixed isomers
Chloromethane/Methyl chloride Endrin aldehyde N-Nitrosopiperidine (sum of o-,m-, and p-xylene concentrations)

2-Chloronaphthalene EPTC N-Nitrosopyrrolidine
Inogranic Constituent Inorganic Constituent Inorganic Constituent Inorganic Constituent Inorganic Constituent Inorganic Constituent Inorganic Constituent

Antimony Cadmium Lead Silver
Arsenic Chromium (Total) Mercury-Nonwastewater from Retort Sulfides
Barium Cyanides (Total) Mercury-All Others Thallium
Beryllium Cyanides (Amenable) Nickel

# Siemens Water Technologies Corp.

# LAND DISPOSAL RESTRICTION NOTIFICATION FORM

Pursuant to CCR Title 22, Section 66268.7(40 CFR 268.7(a), I hereby notify that this waste shipment contains one or more of the following wastes restricted under the land disposal restrictions for which applicable treatment standards are set forth in CCR Title 22, Section 66268.40 (40 CFR 268.40)

Manifest Num# 000764368JJK Generator Name: SPACE EXPLORATION EPA# CAR000191536										
	RCRA HAZARDOUS WASTE INFORMATION									
U.S.F. PROFILE	List all	Subcategory	WASTE	NATER*/	California List **	Hazardoue Dobzie Subject To				
NUMBER/ MANIFEST	D, F, K, U & P	Subcategory		TEWATER	Per CCR Title 22, Section	Hazardous Debris Subject To CCR Title 22, Sec 66268.45				
LINE ITEM NUMBER	Codes	(IF ANY)	ww	NWW	66268.32	301t Title 22, 000 00208.40				
				ΙV						
1)AP169390	D006,D007			X	For:					
				l						
					└── For:					
				<u></u>						
				<b> </b>	☐ For:					
ADDITIONAL INF	ORMATION F	OR D001, D002	2. D012-43	. F001-5 8	F039 WASTE STREAM	S: (check one)				
There are no un						(0.1.001 0.1.0)				
		•								
	ying hazardous	constituents (UHC	cs) present v	vhich do noi	t meet treatment standards	per CCR Title 22, Section				
66268.48										
			opriate cons	tituent(s) pr	resent in the waste stream)					
DETERMINATION	I BASED UPO	N: (check one)								
Knowledge of th	e process gene	rating the waste ar	nd the raw m	naterials use	ed and the reaction products	3				
-	•				•					
Results from ana	alytical testing		Ana	iyticai resuli	ts attached 🛮 YES 🔻 🗎 N	О				
TERM DEFINITION	MC.									
		22 Section 66260 1	A MARTE TE	AT CONTAI	NO LESS THAN 407 BY MEIOL	HT TOTAL TOXIC ORGANICS				
(TOCs) AND 1% BY W				AT CONTAI	NO LEGO I HAN 176 BT WEIGI	TI TOTAL TOXIC ORGANICS				
(1003) AND 170 DI VI	VEIOIII TOTALO	OOI EIIDED OOLID	O (100).							
*CALIFORNIA LIST	= THE FOLLOW	ING HAZARDOUS W	VASTES ARE	PROHIBITE	D FROM LAND DISPOSAL: ne	er CCR Title 22, Section 66268.32				
		ess than or equal to		, , , , , , , , , , , , , , , , , , , ,	2	5. 55.1. 1.1.5 22, 5551011 55255.52				
		PCB's at concentrat		than or equa	l to 50 ppm					
<ul> <li>Liquid hazardous</li> </ul>	waste, including	free liquids associat	ed with any s	olids/sludge,	containing free cyanide at con	centrations greater than or equal to				
1,000 mg/L		·	•	<b>J</b> ,						
<ul> <li>Liquid hazardous</li> </ul>	waste, including t	free liquids associate	d with any so	lids/sludge, c	ontaining metals at concentrati	ons greater than or equal to the				
following:	· · · · · · · · · · · · · · · ·	`	•	0,	<b>9</b>	3				
ARSENIC	500 mg/L		MERCURY	<u> </u>	20 mg/L					
CADMIUM	100 mg/L		NICKEL		134 mg/L					
CHROMIUM	500 mg/L		SELENIUM		100 mg/L					
LEAD	500 mg/L		THALLIUN		130 mg/L					
<ul> <li>Liquid hazardous</li> </ul>	waste, that conta	ins HOC's in total co	ncentration gr	reater than or	equal to 1,000 mg/L					
	hazardous waste	containing HOC's in	total concent	ration greate	r than or equal to 1,000 mg/L					
CERTIFICATION										
I certify under penalty	I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge									
of the waste to support this certification. I believe that the information I have submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment										
		g a taise certification	on including	tne possibil	ity of a fine and imprisonmer					
SPACE EXPLO	RATION	+	(/   1 ~	K - 1	n BELOVE E	06/25/08				
COMPANY NAME			Alit	HORIZED S	SIGNATURE C -	DATE				
TOTAL PART TARREST			701		nBEhalf of Space 52.	DAIL				
					1					



# Rho Chem Corporation, a wholly owned subsidiary of PHILIP SERVICES CORP., RCRA Land Disposal Restriction Notification Form EZ

			- 11111	-
Ger	nerator: SPA	CE EXPLORATION TECH.	U.S. EPA I.D. #:	<u>CAR000191536</u>
Pro	file # 387627-00		Manifest #:	000697866JJK
268	s, Subpart D or do not	this form are subject to the land disposement the applicable prohibition levels call boxes that apply):	sal restrictions of 40 Caspecified in 268.32. Po	CFR Part 268. The wastes do not meet the treatment standards specific fursuant to 40 CFR 268.7(a), the required information applicable to ex-
		Treatability Group: (Wastewaters contain less the	□ Wast nan 1% filterable solids	tewater Nonwastewater s and less than 1% Total Organic Carbon)
	Complete form D001 Ignitable (exceed) D001 High TOC Ign D002 Corrosive man D002 Corrosive man D003 Reactive Sulfi D003 Reactive Cyan D003 Water Reactive D003 Water Reactive	tept for High TOC) managed in non-ten UC, unless D001 is the only "D" code opt for High TOC) managed in CWA/Cuitable (greater than 10% total organic of maged in non-CWA/non-CWA-equivalent/Class des based on 261.23(a)(5) ides based on 261.23(a)(5) wes based on 261.23(a)(2),(3) and (4) may be seen as a considerable of the complete for the UC, unless than the considerable of the UC, unless than the Complete for the UC, unless than the UC, unless	de and the waste is to be CWA-equivalent/Class arbon) alent/non Class I SDW I SDWA systems  managed in non-CWA anaged in CWA/ CWA-	the combusted or recovered.) I SDWA systems  WA systems (Complete form UC)  A/non-CWA-equivalent/non Class I SDWA systems (Complete form
If DO SDW	004-43 boxes are checke VA systems):	d, complete and attach Form UC to addres.	s underlying hazardous co	constituents (unless these wastes are to be managed in CWA/CWA-equivalent/
00000000000000	D009 High-mercury D009 Low-mercury D010 Selenium D012 Endrin D013 Lindane D014 Methoxychlor D015 Toxaphene D016 2,4-D D017 2,4,5-TP (Silv D018 Benzene D019 Carbon tetrac D020 Chlordane D021 Chlorobenzen D022 Chloroform	D008 Lead	ng incinerator residue  0009 All D009 wastew    D03   D03   D03   D03   Izene   D03   D04   D04   D04   D04   D04	ad residues from RMERC  vaters  3 Hexachlorobutadiene 34 Hexachloroethane 35 Methyl ethyl ketone 36 Nitrobenzene 37 Pentachlorophenol 38 Pyridine 39 Tetrachloroethylene 30 roethylene 31 2,4,5-Trichlorophenol 32 2,4,6-Trichlorophenol 33 Vinyl chloride
Note		s are checked, form UC must be complete rocess or unless otherwise noted above.	ed to address underlying	g hazardous constituents, unless the material is treated in a Clean Water
		g wastes are included in this shipm		
			he F001-F005 section on	the back of this form. Check the hazardous waste number(s) that applies, and
		y to be present in the waste.)	mat add	identical descriptions
		s additional waste codes that are		
EFA	Waste Code	Subcategory (if applicable)	EPA Waste Cod	<u>Subcategory</u> (if applicable)

This is a two sided form

Form EZ Revised 04/18/2007

		05 Spent Solvents box(es) that applies;	identify the individ	dual constituents likely	y to be present.	
Haza	ırdou	s waste description	Regu	ilated hazardous consti	cituents	
☐ F001 Spent halogenated solvents used in degreasing		Tetra Trich	on tetrachloride chloroethylene loroethylene loromonofluoromethane	Methylene chloride 1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane		
	F002	Spent halogenated solv	Methy 1,1,1- Trichi	obenzene ylene chloride Trichloroethane loroethylene loromonofluoromethane	o-Dichlorobenzene Tetrachloroethylene 1,1,2-Trichloroethane 1,1,2-Trichloro-1,2,2-triffuoroethane	
F	F003	Spent non-halogenated	Cyclo Ethyl Metha	hexanone* benzene	n-Butyl alcohol Ethyl acetate Ethyl ether Methyl isobutyl ketone	
□ f	7004	Spent non-halogenated	p-Cre		o-Cresol Cresol-mixed isomers (cresylic acid)	
X F	005	Spent non-halogenated	2-Etho	oxyethanol d ethyl ketone	Carbon disulfide* Isobutyl alcohol 2-Nitropropane Toluene	
conta	aining	nent standards for carbo g only one, two, or all th ts are present in the wa	aree of these constitue	anone, and methanol no ents. The treatment stand	onwastewaters are based on the TCLP and apply to spent solvent nonwast dards for these three constituents do not apply when any of the other F00.	tew. I-F
Haza	rdou	s Debris				
☐ T	his sl lastin	nipment contains hazard g).	lous debris that will b	e treated to comply with	n the alternative treatment standards of 268.45 (e.g., macroencapsulation o	ır al
(The subject	defin ct to	itions of "debris" an treatment." To deteri	d "hazardous debi mine these, look uj	ris" are in 40 CFR 26 the waste code in 26	58.2. Per 268.45, hazardous debris must be treated for each "com 58.40 and list the regulated hazardous constituents for each code.	tan )
The co	ntam	inants subject to treatme	ent for this debris are	identified below:		
EPA V	Vaste	Code Subca	ategory	Contaminants subject	ct to treatment	

# Rho Chem Corporation, a wholly owned subsidiary of PHILIP SERVICES CORP., RCRA Land Disposal Restriction Notification Form UC

	Generator: SPACE EXPLORATION TECH. U.S. EPA I.D. #:CAR000191536
	Profile #: 387627-00 Manifest #: <u>000697866JJK</u>
	In accordance with 40 CFR 268.7(a), the underlying hazardous constituents must be addressed in this waste. Per 268.2(i), "underlying hazardous constituent" means any constituent listed in 268.48, Table UTS—Universal Treatment Standard which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. Refer to Form-EZ (attached) for the waste code(s), treatability group, and subcategory applicable to this waste.
	In order to address underlying hazardous constituents in characteristic wastes, please check the appropriate box:
J	I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that there are no underlying hazardous constituents reasonably expected to be present in this waste.
K	I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that underlying hazardous constituents are present in this waste. The underlying hazardous constituents are identified as follows:
The	e determination of underlying hazardous constituents was based on:
ζ	Generator's knowledge of the waste
٦	Analysis
	I certify that I personally have examined and am familiar with the waste through analysis and testing, or through knowledge of the waste to support this certification. I certify that as an authorized representative of the generator named above, all the information submitted in this notification is true and correct to the best of my knowledge.
<u>A</u> Pri	Macs Li Rodriguto.  Nated Name  1/24/08  Date

#### List of Underlying Hazardous Constituents 40 CFR 268.48

Circle or otherwise identify the underlying hazardous constituents present in the waste:

Organic Constituent Organic Constituent Organic Constituent Organic Constituent A2213 2-Chlorophenol Ethyl acetate Oxamyl Acenaphthylene 3-Chloropropylene Ethyl benzene Parathion Acenaphthene Chrysene Ethyl cyanide/Propanenitrile Total PCBs(sum of all isomers, or all Aroclors) Acetone o-Cresol Ethyl ether Pehiilate Acetonitrile m-Cresol bis(2-Ethylhexyl)phthalate Pentachlorobenzene Acetophenone PeCDDs(All Pentachlorodibenzo-p-dioxi p-Cresol Ethyl methacrylate m-Cumenyl methylcarbamate 2-Acetylaminofluorene Ethylene oxide PeCDFs(All Pentachlorodibenzofurans) Acrolein Cyclohexanone Famphur Pentachloroethane o,p'-DDD Acrylamide Fluoranthene Pentachloronitrobenzene Acrylonitrile p,p'-DDD Fluorene Pentachlorophenol Aldicarb sulfone o,p'-DDE Formetanate hydrochloride Phenacetin p,p'-DDE Aldrin Formparanate Phenanthrene 4-Aminobiphenyl o,p'-DDT Heptachlor Phenol Aniline p,p'-DDT Heptachlor epoxide o-Phenylenediamine Anthracene Dibenz(a,h)anthracene Hexachlorobenzene Phorate Aramite Dibenz(a,e)pyrene Hexachlorobutadiene Phthalic acid alpha-BHC 1,2-Dibromo-3-chloropropane Hexachlorocyclopentadiene Phthalic anhydride beta-BHC 1,2-Dibromoethane/Ethylene dibromide HxCDDs(All Hexachlorodibenzo-p-dioxins)Physostigmine Dibromomethane delta-BHC HxCDFs(All Hexachlorodibenzofurans) Physostigmine salicylate gamma-BHC m-Dichlorobenzene Hexachloroethane Promecarb Barban o-Dichlorobenzene Hexachloropropylene Pronamide Bendiocarb p-Dichlorobenzene Indeno(1,2,3-c,d)pyrene Propham Bendiocarb phenol Dichlorodifluoromethane Iodomethane Propoxur Benomyl 1.1-Dichloroethane Isobutyl alcohol Prosulfocarb Benzene 1,2-Dichloroethane Isodrin Pyrene Benz(a)anthracene 1,1-Dichloroethylene Isolan Pyridine Benzal chloride trans-1,2-Dichloroethylene Isosafrole Safrole Benzo(b)fluoranthene 2,4-Dichlorophenol Kepone Silvex/2,4,5-TP Benzo(k)fluoranthene 2,6-Dichlorophenol Methacrylonitrile 1,2,4,5-Tetrachlorobenzene Benzo(g,h,i)perylene 2,4-Dichlorophenoxyacetic acid/2,4-D Methanol Benzo(a)pyrene 1,2-Dichloropropane TCDFs(All Tetrachlorodibenzofurans) Methapyrilene Bromodichloromethane cis-1.3-Dichloropropylene Methiocarb 1,1,1,2-Tetrachloroethane Bromomethane/Methyl bromide trans-1,3-Dichloropropylene Methomyl 1.1.2.2-Tetrachloroethane 4-Bromophenyl phenyl ether Dieldrin Methoxychlor Tetrachloroethylene n-Butyl alcohol Diethylene glycol, dicarbamate 3-Methylcholanthrene 2,3,4,6-Tetrachlorophenol Diethyl phthalate Butylate 4,4-Methylene-bis(2-chloroaniline) Thiodicarb Butyl benzyl phthalate p-Dimethylaminoazobenzene Methylene chloride Thiophanate-methyl 2-sec-Butyl-4,6-dinitrophenol/Dinoseb 2,4-Dimethyl phenol Methyl ethyl ketone Tirpate Carbaryl Dimethyl phthalate Methyl isobutyl ketone Toluene Carbenzadim Dimetilan Methyl methacrylate Toxaphene Carbofuran Di-n-butyl phthalate Methyl methansulfonate Triallate Carbofuran phenol 1,4-Dinitrobenzene Methyl parathion Tribromomethane/Bromoform Carbon disulfide Metolcarb 4,6-Dinitro-o-cresol 2,4,6-Tribromophenol Carbon tetrachloride 2,4-Dinitrophenol Mexacarbate 1,2,4-Trichlorobenzene Carbosulfan 2,4-Dinitrotoluene Molinate 1,1,1-Trichloroethane Chlordane (alpha and gamma isomers) 2,6-Dinitrotoluene Naphthalene 1,1,2-Trichloroethane

p-Chloroaniline Chlorobenzene Chlorobenzilate 2-Chloro-1,3-butadiene Chlorodibromomethane

Chloroform

p-Chloro-m-cresol 2-Chloroethyl vinyl ether Chloromethane/Methyl chloride

concentrations)

2-Chloronaphthalene

Antimony Arsenic Barium Beryllium

Chloroethane bis(2-Chloroethoxy)methane

bis(2-Chloroethyl)ether

bis(2-Chloroisopropyl)ether

Inogranic Constituent

Cadmium Chromium (Total) Cyanides (Total) Cyanides (Amenable)

Di-n-octvl phthalate Di-n-propylnitrosamine 1.4-Dioxane

Diphenylamine Diphenylnitrosamine 1,2-Diphenylhydrazine

Disulfoton Dithiocarbamates (total) Endosulfan I

Endosulfan II Endosulfan sulfate Endrin

Endrin aldehyde

Inorganic Constituent

Mercury-All Others Nickel

N-Nitrosopyrrolidine Inorganic Constituent

2-Naphthylamine

5-Nitro-o-toluidine

N-Nitrosodiethylamine

N-Nitrosomorpholine

N-Nitrosopiperidine

N-Nitrosodimethylamine

N-Nitroso-di-n-butylamine

N-Nitrosomethylethylamine

o-Nitroaniline

p-Nitroaniline

Nitrobenzene

o-Nitrophenol

p-Nitrophenol

Mercury-Nonwastewater from Retort

TCDDs(All Tetrachlorodibenzo-p-dioxins

Trichloroethylene Trichloromonofluoromethane 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4,5-Trichlorophenoxyacetic acid/2,4,5-T

1,2,3-Trichloropropane 1,1,2-Trichloro-1,2,2-trifluoroethane

Triethylamine

tris-(2,3-Dibromopropyl)phosphate Vernolate

Vinyl chloride Xylenes-mixed isomers (sum of o-,m-, and p-xylene

Inorganic Constituent Silver

Sulfides Thallium



### Rho Chem Corporation, a wholly owned subsidiary of PHILIP SERVICES CORP., RCRA Land Disposal Restriction Notification Form EZ

Gen	nerator: SPACE EXPLORA	TION TECH. U.S. I	EPA I.D. #: CAR	<u>R000191536</u>	
Prof	file # 388824-00	Manif	est #: 0006	<u> 597867JJK</u>	
268	wastes identified on this form are s, Subpart D or do not meet the applied that if the below (check all boxes that	icable prohibition levels specified in	ons of 40 CFR Part 268.32. Pursuant	t 268. The wastes do not meet the treatment st to 40 CFR 268.7(a), the required information	andards specific applicable to ea
	(Wa	Treatability Group: astewaters contain less than 1% filte.	☐ Wastewater rable solids and le	Nonwastewater ss than 1% Total Organic Carbon)	
	(Complete form UC, unless D D001 Ignitable (except for High TO D001 High TOC Ignitable (greater D002 Corrosive managed in non- D002 Corrosive managed in CWA/ D003 Reactive Sulfides based on 20 D003 Reactive Cyanides based on 20	than 10% total organic carbon)  CWA/non-CWA-equivalent/non C  CWA-equivalent/Class I SDWA sy 61.23(a)(5) 261.23(a)(5) 61.23(a)(2),(3) and (4) managed in 1.23(a)(2),(3) and (4) managed in C	caste is to be combalent/Class I SDWA class I SDWA systems non-CWA/non-C	A systems  CWA-equivalent/non Class I SDWA systems	(Complete forn
	004-43 boxes are checked, complete and 'A systems):	attach Form UC to address underlying	hazardous constitue	nts (unless these wastes are to be managed in CWA)	'CWA-equivalent/
00000000000000	D012 Endrin D013 Lindane D014 Methoxychlor D015 Toxaphene D016 2,4-D D017 2,4,5-TP (Silvex) D018 Benzene D019 Carbon tetrachloride D020 Chlordane	ead D008 Lead at 0 mg/kg total), including incinerator mg/kg total), not including incineration	cid batteries r residue and residue 109 wastewaters 109 D033 Hext 10034 Hext 10035 Met 10036 Nitr 10037 Pent 10038 Pyri 10039 Tetr 140 Trichloroethy 10041 2,4,5	achlorobutadiene achloroethane hyl ethyl ketone obenzene tachlorophenol dine rachloroethylene d-Trichlorophenol	
Note:	If any bolded entries are checked, f (CWA) treatment process or unless		s underlying hazaro	dous constituents, unless the material is treated in	ı a Clean Water A
XX ideni	tify the constituents likely to be present i	box is checked, complete the F001-F00		k of this form. Check the hazardous waste number(s	s) that applies, and
			Waste Code	Subcategory (if applicable)	

This is a two sided form

Form EZ Revised 04/18/2007

Check i	he box(es) that a	pplies; identify the	individual constituents likely to be j	present.				
Hazard	ous waste descrip	<u>otion</u>	Regulated hazardous constituents					
□ F00	1 Spent halogena used in degreas		Carbon tetrachloride Tetrachloroethylene Trichloroethylene Trichloromonofluoromethane	Methylene chloride 1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane				
□ F00	2 Spent halogenat	ted solvents	Chlorobenzene Methylene chloride 1,1,1-Trichloroethane Trichloroethylene Trichloromonofluoromethane	o-Dichlorobenzene Tetrachloroethylene 1,1,2-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane				
F00	3 Spent non-halog	genated solvents	Acetone Cyclohexanone* Ethyl benzene Methanol* Xylenes (total)	n-Butyl alcohol Ethyl acetate Ethyl ether Methyl isobutyl ketone				
□ F00	4 Spent non-halog	genated solvents	m-Cresol p-Cresol Nitrobenzene	o-Cresol Cresol-mixed isomers (cresylic acid)				
F00	5 Spent non-halog	genated solvents	Benzene 2-Ethoxyethanol Methyl ethyl ketone Pyridine	Carbon disulfide* Isobutyl alcohol 2-Nitropropane Toluene				
contain	atment standards foi ing only one, two, i ents are present in	or all three of these co	vclohexanone, and methanol nonwaste onstituents. The treatment standards fo	waters are based on the TCLP and apply to spent solvent nonwastew or these three constituents do not apply when any of the other F001-F				
Hazard	ous Debris							
□ This	shipment contains	s hazardous debris tha	t will be treated to comply with the alto	ernative treatment standards of 268.45 (e.g., macroencapsulation or al				
(The dej subject	(The definitions of "debris" and "hazardous debris" are in 40 CFR 268.2. Per 268.45, hazardous debris must be treated for each "contain subject to treatment." To determine these, look up the waste code in 268.40 and list the regulated hazardous constituents for each code.)							
The cont	aminants subject to	treatment for this del	oris are identified below:					
EPA Was	ste Code	Subcategory	Contaminants subject to trea	<u>atment</u>				
		***************************************						

F001-F005 Spent Solvents

# Rho Chem Corporation, a wholly owned subsidiary of PHILIP SERVICES CORP., RCRA Land Disposal Restriction Notification Form UC

	Generator: SPACE EXPLORATION TECH. U.S. EPA I.D. #:CAR000191536	
	Profile #: 388824-00 Manifest #: 000697867JJK	
	In accordance with 40 CFR 268.7(a), the underlying hazardous constituents must be addressed in this waste. Per 268.2(i), "underlying hazardous constituent" means any constituent listed in 268.48, Table UTS—Universal Treatment Standard which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. Refer to Form-EZ (attached) for the waste code(s), treatability group, and subcategory applicable to this waste.	1e
	In order to address underlying hazardous constituents in characteristic wastes, please check the appropriate box:	
٦	I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that there are no underlying hazardous constituents reasonably expected to be present in this waste.	
×.	I have reviewed the UTS list of 268.48, and per 268.7(a), I have determined that underlying hazardous constituents are present in this waste. The underlying hazardous constituents are identified as follows:	
The	ne determination of underlying hazardous constituents was based on:	
ζ.	Generator's knowledge of the waste	
⊐	Analysis	
	I certify that I personally have examined and am familiar with the waste through analysis and testing, or through knowledge of the waste to support this certification. I certify that as an authorized representative of the generator named above, all the information submitted in this notification is true and correct to the best of my knowledge.	
4	Marce 1 Prodrigues Signature Date	
. 11	inted Name Signature $\mathcal O$ Date	

#### List of Underlying Hazardous Constituents 40 CFR 268.48

Circle or otherwise identify the underlying hazardous constituents present in the waste:

Organic Constituent Organic Constituent Organic Constituent Organic Constituent A2213 2-Chlorophenol Ethyl acetate Oxamyl Acenaphthylene 3-Chloropropylene Ethyl benzene Parathion Acenaphthene Chrysene Ethyl cyanide/Propanenitrile Total PCBs(sum of all isomers, or all Aroclors) Acetone o-Cresol Ethyl ether Acetonitrile m-Cresol bis(2-Ethylhexyl)phthalate Pentachlorobenzene Acetophenone p-Cresol Ethyl methacrylate PeCDDs(All Pentachlorodibenzo-p-dioxi 2-Acetylaminofluorene m-Cumenyl methylcarbamate Ethylene oxide PeCDFs(All Pentachlorodibenzofurans) Acrolein Cyclohexanone Famphur Pentachloroethane Acrylamide o.p'-DDD Fluoranthene Pentachloronitrobenzene Acrylonitrile p,p'-DDD Fluorene Pentachlorophenol Aldicarb sulfone o,p'-DDE Formetanate hydrochloride Phenacetin p,p'-DDE Aldrin Formparanate Phenanthrene 4-Aminobiphenyl o,p'-DDT Heptachlor Phenol p,p'-DDT Aniline Heptachlor epoxide o-Phenylenediamine Anthracene Dibenz(a,h)anthracene Hexachlorobenzene Phorate Aramite Dibenz(a,e)pyrene Hexachlorobutadiene Phthalic acid alpha-BHC 1,2-Dibromo-3-chloropropane Hexachlorocyclopentadiene Phthalic anhydride beta-BHC 1,2-Dibromoethane/Ethylene dibromide HxCDDs(All Hexachlorodibenzo-p-dioxins)Physostigmine delta-BHC Dibromomethane HxCDFs(All Hexachlorodibenzofurans) Physostigmine salicylate gamma-BHC m-Dichlorobenzene Hexachloroethane Promecarb Barban o-Dichlorobenzene Hexachloropropylene Pronamide Bendiocarb p-Dichlorobenzene Indeno(1,2,3-c,d)pyrene Propham Bendiocarb phenol Dichlorodifluoromethane Iodomethane Propoxur Benomyl 1.1-Dichloroethane Isobutyl alcohol Prosulfocarb Benzene 1,2-Dichloroethane Isodrin Pyrene Benz(a)anthracene 1,1-Dichloroethylene Isolan Pyridine Benzal chloride trans-1,2-Dichloroethylene Isosafrole Safrole Benzo(b)fluoranthene 2,4-Dichlorophenol Kepone Silvex/2,4,5-TP Benzo(k)fluoranthene 2,6-Dichlorophenol Methacrylonitrile 1,2,4,5-Tetrachlorobenzene Benzo(g,h,i)perylene 2,4-Dichlorophenoxyacetic acid/2,4-D Methanol Benzo(a)pyrene 1,2-Dichloropropane Methapyrilene Bromodichloromethane cis-1,3-Dichloropropylene Methiocarb 1,1,1,2-Tetrachloroethane trans-1,3-Dichloropropylene Bromomethane/Methyl bromide Methomyl 1,1,2,2-Tetrachloroethane Methoxychlor 4-Bromophenyl phenyl ether Dieldrin Tetrachloroethylene n-Butyl alcohol Diethylene glycol, dicarbamate 3-Methylcholanthrene 2,3,4,6-Tetrachlorophenol Butylate Diethyl phthalate 4,4-Methylene-bis(2-chloroaniline) Thiodicarb Butyl benzyl phthalate p-Dimethylaminoazobenzene Methylene chloride Thiophanate-methyl 2-sec-Butyl-4,6-dinitrophenol/Dinoseb 2,4-Dimethyl phenol Methyl ethyl ketone Tirpate Carbaryl Dimethyl phthalate Methyl isobutyl ketone Toluene Carbenzadim Dimetilan Methyl methacrylate Toxaphene Carbofuran Di-n-butyl phthalate Methyl methansulfonate Triallate Carbofuran phenol 1,4-Dinitrobenzene Methyl parathion Tribromomethane/Bromoform Carbon disulfide 4,6-Dinitro-o-cresol Metolcarb 2.4.6-Tribromophenol Carbon tetrachloride 2.4-Dinitrophenol Mexacarbate 1,2,4-Trichlorobenzene Carbosulfan 2,4-Dinitrotoluene

Chlordane (alpha and gamma isomers)

p-Chloroaniline Chlorobenzene Chlorobenzilate 2-Chloro-1,3-butadiene Chlorodibromomethane

Chloroethane

bis(2-Chloroethoxy)methane bis(2-Chloroethyl)ether Chloroform bis(2-Chloroisopropyl)ether

p-Chloro-m-cresol 2-Chloroethyl vinyl ether Chloromethane/Methyl chloride

concentrations) 2-Chloronaphthalene Inogranic Constituent

Antimony Arsenic Barium Beryllium

Diphenylnitrosamine 1,2-Diphenylhydrazine Disulfoton

2,6-Dinitrotoluene

1.4-Dioxane

Diphenylamine

Di-n-octyl phthalate

Di-n-propylnitrosamine

Dithiocarbamates (total) Endosulfan I Endosulfan II Endosulfan sulfate Endrin

**EPTC** 

Endrin aldehyde

Inorganic Constituent Cadmium

Chromium (Total) Cyanides (Total) Cyanides (Amenable)

Molinate Naphthalene 2-Naphthylamine o-Nitroaniline p-Nitroaniline Nitrobenzene

5-Nitro-o-toluidine o-Nitrophenol p-Nitrophenol

N-Nitrosodiethylamine N-Nitrosodimethylamine N-Nitroso-di-n-butylamine

N-Nitrosomethylethylamine N-Nitrosomorpholine N-Nitrosopiperidine

N-Nitrosopyrrolidine Inorganic Constituent

Lead Mercury-Nonwastewater from Retort Mercury-All Others Nickel

TCDDs(All Tetrachlorodibenzo-p-dioxins TCDFs(All Tetrachlorodibenzofurans)

1.1.1-Trichloroethane

1,1,2-Trichloroethane

Trichloroethylene Trichloromonofluoromethane 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4,5-Trichlorophenoxyacetic acid/2,4,5-T 1,2,3-Trichloropropane

1,1,2-Trichloro-1,2,2-trifluoroethane

Triethylamine tris-(2,3-Dibromopropyl)phosphate

Vernolate Vinyl chloride Xylenes-mixed isomers (sum of o-,m-, and p-xylene

Inorganic Constituent Silver

Sulfides Thallium

### Siemens Water Technologies Corp.

# LAND DISPOSAL RESTRICTION NOTIFICATION FORM

Pursuant to CCR Title 22, Section 66268.7(40 CFR 268.7(a), I hereby notify that this waste shipment contains one or more of the following wastes restricted under the land disposal restrictions for which applicable treatment standards are set forth in CCR Title 22, Section 66268.40 (40 CFR 268.40)

Manifest Num# 0006			CE EXPLO	<u>RATION</u>	EPA# CAR000191536			
RCRA HAZARDOUS					<b></b>			
U.S.F. PROFILE	List all	Subcategory		WATER*/	California List **	Hazardous Debris Subject To CCR Title 22, Sec 66268.45		
NUMBER/ MANIFEST	D, F, K, U & P Codes	(IF ANY)	WW	TEWATER NWW	Per CCR Title 22, Section 66268.32	CGR Title 22, Sec 00200.45		
LINE ITEM NUMBER	Codes	(IF AIV1)		144444	00200.02			
1)P179098	D002,D007		Х		☐For:			
1)F113030	DOOL,DOO		<u> </u>					
2)AP169389	D007			X	For:			
			,	Х	J	r-3		
3)P179026	D007			^	☐ For:			
				Х				
4)P178917	D002				For:			
ADDITIONAL INF	ORMATION F	OR D001, D002	2, D012-43	3, F001-5	% F039 WASTE STREAM	IS: (check one)		
There are no un	derlying hazard	ous constituents (	UHCs) pres	ent				
					t meet treatment standards	ner CCR Title 22. Section		
66268.48	lying nazardous	constituents (or it	oo, present	William do no	e mode a damone diamon do	por correction many cooling.		
/i lee the attach	ed UTS Table a	and check the appi	ropriate con	stituent(s) n	resent in the waste stream)			
DETERMINATION				omaom(o) p				
				matariala ua	ad and the reaction product	•		
Knowledge of the	ie process gene	rating the waste a			ed and the reaction product			
Results from ana	alytical testing		An	alytical resul	its attached 🛭 YES 💢 🖺 1	1O		
·								
TERM DEFINITION	ONS:	00.0	IO MACTE T	TIAT CONTA	INC LESS THAN 48/ BY MEIO	HT TOTAL TOVIC OPGANICS		
* WASTEWATER (TOCs) AND 1% BY V	= per CCR Title	ZZ, Section obzou. I	IU, WASIE I	HAT CONTA	INS LESS THAN 1% BT WEIG	HT TOTAL TOXIC ORGANICS		
(TOCS) AND 1% BY V	VEIGHT TOTAL	OSPENDED SOLID	G (130).					
*CALIFORNIA LIST	T= THE FOLLOW	ING HAZARDOUS V	VASTES ARI	E PROHIBITE	D FROM LAND DISPOSAL: p	er CCR Title 22, Section 66268.32		
<ul> <li>Liquid hazardous</li> </ul>	waste with a pH	less than or equal to	2.0					
Liquid bazardous	waste containing	PCB's at concentra	tion of greate	r than or equ	al to 50 ppm			
<ul> <li>Liquid hazardous</li> </ul>	waste, including	free liquids associa	ted with any	solids/sludge	, containing free cyanide at co	ncentrations greater than or equal to		
1,000 mg/L								
<ul> <li>Liquid hazardous</li> </ul>	waste, including	free liquids associate	ed with any s	olids/sludge,	containing metals at concentrat	ions greater than or equal to the		
following:	"		MEDON	DV.	20			
ARSENIC	500 mg/L		MERCUI NICKEL		20 mg/L 134 mg/L			
CADMIUM CHROMIUM	100 mg/L 500 mg/L		SELENII		100 mg/L			
LEAD	500 mg/L		THALLI		130 mg/L			
Liquid hazardous		ins HOC's in total co			or equal to 1,000 mg/L			
Non-liquid RCRA	hazardous waste	containing HOC's in	n total conce	ntration great	er than or equal to 1,000 mg/L			
CERTIFICATION								
I certify under nenalt	by of law that I be	ersonally have exan	nined and ar	n familiar wi	th the waste through analysis	and testing or through knowledge		
of the waste to supp	I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification. I believe that the information I have submitted is true, accurate and complete. I am aware that there							
		ng a false certificati	ion, includin	g the possib	ility of a fine and imprisonme			
SPACE EXPLO	RATION		()) 1	7 - 1/	<b>/</b>	06/19/08		
COMPANY NAME			ΔΙ	THORIZE	SIGNATURE	DATE		
COMPANY NAME AUTHORIZED SIGNATURE SATE								

GENERATOR NAMES	one Exploration	EPAID. # CAROW) 9153 (	,
ADDRESS:   Rock		MANIFEST #: 0001 09 10 15 13K	
	hans 1A 90250	"我们是我们就是我们还没有的意思,只要我们就是一种特别是不是这个大概,但是我就是一个这个女人,这一个女人,这一个女人,这个人就不够的一样。"	

# ~~SEE INSTRUCTIONS (1,2,3 and 4)~~

Pursuant to CCR Title 22, Section 66268.7 (40 CFR 268 7), I hereby notify that this waste shipment contains one or more of the following wastes restricted under the land disposal restriction for which applicable treatment standards are set forth in CCR Title 22. Chapter 18, Land Disposal Restrictions.

Manifest Line Item Number	EPA Codes & State Codes LIST ALL	Description/ Subcategory	LDR Waste Notification (A thru F)	Determination of Wasta Disposal (A or B)	Underline Hazardous Constituents (A,B or C)	Waste water or Non Waste water
				2	3.	
	D(X)	Flammable	A	В	C	しいい
	213	Laurs				
2	223	NON BOBA	A Com	8	ः <b>ल</b> ःः ः	WID
3	223	NON BORA	P A	В	O O	WW
	白髓療法。於			<b>常新工作197</b> %		And College Coll
	1 11 11 11 11 11	<b>上新一位,他就是</b>	總管法。法上的「包	類於1522-1534至		巻き、は 集合
			7474.41 4.2	A.		
	<b>经</b> 自己的证据			数字式有数	<b>基础的数据</b>	
21 数 Pr 3: 2 3 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3	李拉伊教会中国			मान्त्र च स्ट्रीस्		34
	1. Page 12. 1		Marie La divisió			
	g Nills and All 14	医野菜 医格勒氏试验	<b>建筑和</b> 企业中的工作。	種質 自然的		<b>第: 《秦</b> ·····
		Lety of the Asset of the				146 - 1471 1
\$30 \$95 at 150	第15-26-27 16	<b>的复数基本的</b>	學學學是一定學	<b>第三年,当年</b> 1	<b>医</b> 医原因氏瓣	
	elektrika ada					35 A 35 35 35 35 35 35 35 35 35 35 35 35 35
	的 化电影 医线层	<b>建筑的东南</b> :				84° (186° )
			<b>多数13000000000000000000000000000000000000</b>			

IFNECESSARY USE A CONTINUATION PAGE.

3	-	- •	
-2as	7	OΙ	

CERT	JF!	CA	ΙI	ŊŊ

I certify under penalty of law that I personally have examined and am familiar with the waste thorough analysis and testing, or through knowledge of the process generating the waste, to support this certification. I believe that the information that I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

GENERATORI COMPANY NAME	<u>Le 19/08</u>
AUTHORIZED SIGNATURE	Araneli Rodingues/CSR

001 002 003 004 005 006	Check >	Check to left if WASTE WATER (WW) Check to left	CUSTO	MER:								WASTE APPROVAL #		
001 002 003 004 005	Check >	Check to left	WASTE					····	·····			WASTE AFFROVAL #		
001 002 003 004 005	Check			NAME:		y and and		- ja	***			EPA#		
002 003 004 005	_	Regulated Constituent Common Name	WW Stardard mg/l	NWW Stardard mg/kg unless TCL	P	Check >	Regulated Constituent Common Name	WW Stardard mg/l	NWW Standard . mg/kg unless TCLP		Check >	Regulated Constituent Common Name	WW Stardard mg/l	NWW Standard mg/kg unless TCLP
003 004 005	-	Acenaphthylene Acenaphthene	0.059		4 073 4 074		1-1 Dichlorethylene	0.025		145		5-Nitro-o-toluidine	0.32	2
005		Acetona	0.033		0 075	-	trans-1,2-Dichloroethylene 2,4-Dichlorophenol	0.054 0.044		146	1	o-Nitrophenol p-Nitrophenol	0.028 0.12	1.
		Acelonitrile	5.6		8 076		2,6-Dichlorophenol	0.044	14	148		N-Nitrosodiethylamine	0.12	2
		Acetophenone 2-Acetylaminofluorene	0.01		7 077 0 078		2,4-Dichlorophenoxyacetic acid/2,4-D 1,2-Dichloropropane	0.72		149	<u> </u>	N-Nitrosodiamethylamine	0.4	2.3
007		Acrolein	0.29			<del> </del>	cis-1,3-Dichloropropylene	0.036		150 151		N-Nitroso-di-n-bulylamine N-Nitrosomethylethylamine	0.4	2.
008		Acrylamide Acrylonitnie	19 0.24		3 080		trans-1,3-Dichloropropylene	0.036		152		N-Nitrosomorpholine	0.4	2.
010		Aldrin	0.021	0.06	4 081 6 082	<del> </del>	Dieldrin Dielhyl phthalate	0.017		153 154	1	N-Nitrosopiperidine N-Nitrosopyrolidine	0.013	3.
011	_	4-Aminobiphenyl	0.13	N.			p-Dimethylaminoazobenzene	0.13		155		Parathion	0.013	3:
012 013		Aniline Anthracene	0.81		4 084 4 085		2-4-Dimethyl phenol Dimethyl phthalate	0.036		156		Total PCBs	0.1	16
014		Aramila	0.36		086		Di-n-butyl phthalate	0.047		157 158	-	Pentachiorobenzene Pentachiorodibenzo-p-dioxins	0.0055	0.001 0.001
015		alpha-BHC	0.00014		087		1,4 Dinitrobenzene	0.32	2.3	159		Pentachlorodibenzo-furans	0.000035	0.001
016 017		beta-BHC delta-BHC	0.00014		6 089 6 089		4,6-Dinitro-a-cresol 2,4-Dinitrophenol	0.28		160 161		Pentachloroethane	0.055	(
018		д <b>ал</b> та-ВНС	0.0017	0.06	090		2,4-Dinitrololuene	0.12		162		Pentachioronitrobenzene Pentachiorophenol	0.055	4.8 7.4
019 020		Senzene	0.14		0 091		2,6-Dinitrotoiuene	0.55	28	163		Phenacetin	0.081	16
020		Benz(a)anthracene Benzal chloride	0.059 0.055		092	_	Di-n-octyl phthalate Di-n-propylnitrosamine	0.017 0.4		164 165		Phenanthrene Phenoi	0.059	5.6
022	1	Benzo(b) flouranthene	0.11	6.8	094		1,4-Dioxane	12	170			Phorate	0.039	6.2 4.6
023 024	<del>-</del>	Senzo(k) fouranthene Senzo(g,h,l)perytene	0.11		095		Diphenylamine O'	0.92		167		Phthalic acid	0.055	28
025		Benzo(a) pyrene	0.061		097		Diphenylnitrosamine 2,1-Diphenylhydrazine	0.92	13 NA	168 169	_	Phthalic anhydride Pronamide	0.055	28
026	_	Promodichioromethane	0.35		098		Disulfoton	0.017	5.2			Pyrana	0.057	1.5 8.2
027		Fromomethane/Methyl bromide  -Bromophenyl phenyl ether	0.11		099 100		Endosulfan I Endolsulfan II	0.023	0,066	171		Pyridine	0.014	16
029		n-Butyl alcohol	5.6		101		Endosulfan sulfate	0.029	0.13 0.13	172 173		Satrole Silvex/2,4,5-TP	0.081	22 7.9
030 031		Butyi benzyi phthalate	0.017	28		1	Endrin	0.0028	0.13	174		1,2,4,50-Tetrachlorebenzene	0.055	14
032		2-sec-Butyl-4,6 dirutrophenol/Dir Carbon disulfide	0.056	4.8 mg/l TCLF	103		Endrin aldehyde Ethyl Acelale	0.025		175 176		Tetrachlorodi-benzo-p-dioxins Tetrachlorodibenzofurans-	0.00063	0.001
033		Carbon tetrachloride	0.057		105		Ethyl benzene	0.057	10			1,1,1,2-Tetrachiorethane	0.00063	0.001 6
034		Chiordane (alpha and gamma leomers) - Chiorpaniline	0.0033		106 107		Ethyl cyanide/Propanenitrile Ethyl ether	0.24		178		1,1,2,2-Tetrachloroethane	0.057	6
036		Chlorobenzens	0.057		108	_	ois(2-Ethylhexyl) phthalate	0.12		179 180		Tetrachioroethylene 2,3,4,6-Tetrachiorophenoi	0.056	7.4
137		Chlorobenzilale	0.1		109		thyl methacrylate	0.14	160			Tokuene	0.03	10
)38 )39		-Chioro-1,3-butadiene hlorodibromomethane	0.057		110		Sthylene oxide Famphur	0.12 0.017		182	_	Toxaphene	0.0095	2.6
40	Ĉ	hioroethane	0.27		112		Pouranthene	0.068	15 3.4	183 184		Tribromomethane/Bromoform 1,2,4 Trichlorobenzene	0.63 0.055	15 19
)41 )42		is(2-Chloroethoxy)methane is(2-Chloroethyl)ether	0.036		113		luorene	0.059		185		1,1,1-Trichlorcethane	0.054	6
43		Chloroform	0.046		114		teptachlor teptachlor epoxide	0.0012 0.016	0.066 0.066			1,1,2-Trichloroethane Trichloroethylene	0.054 0.054	6
44	_	is(2-Chioroisopropyl)ether	0.055		116		lexachlorobenzene	0.055		188		Frichioromonorluoromethane	0.054	30
45 46		-Chioro-m-cresol -Chioroethyl vinyl ether	0.018		117 118		lexachlorobutadiene	0.055		189		2,4,5-Trichlorophenol	0.18	7.4
47	C	hloromethane/Methyl chloride	0.19	30	119		lexachlorocyclopentadiene lexachlorodibenzo-p-dioxins & furans	0.0057	0.001	190 191		2,4,6-Trichlorophenol 2,4,5-Trichlorophenovyscetc acid/2,4,5T	0.035 0.72	7.4 7.9
48		chloronaphthalene	0.055		120		fexachkroethane	0.055	30	192		1,23-Trichloropropane	0.85	7.9 30
49 50		-Chiorophenoi -Chioropropylene	0.044		121 122		exachioropropylene ndeno (1,2,3-c,d) pyrene	0.035		193		1,1,2 Trichloro-1,2,2,trifloroethane	0.057	30
51	С	hrysene	0.059	3,4	123		odomethane	0.0055		194		ris(2,3 Dibromopropyl) phospha(a /inyl chlorida	0.11	0.1 6
52 53		-Cresol -Cresol	0.11		124		sobutyi alcohol	5.6	170	196	7	Kylenes-Total	0.32	30
54		Cresol	0.77	5.6 5.6	125 126		sodrin sosakole	0.021	0.066 2,6			Antmony	1.9	2.1mg/i TCLP
55		yclohexanone	0.36	0.75mg/t TCLP	127		epone	0.0011	0.13			Arsenic Barrum	1.4	5.0mg/iTCLP 7.6mg/iTCLP
56 57		ρ'-DDD	0.023	0.087 0.087			fethacrylonitris	0.24	34	200	į	Beryllium	0.85	0.014mg/LTCLP
58		p-CD€	0.031		130		lethanol fothapyrilene	5.6 0.081	0.75mg/l TCLP 1.5			Cadmium Chromium (Total)	0.69 2.77	0.19mg/ITCLP
59		p'-DDE	0.031	0.087	131	À	lethoxychlor	0.25	Q.18			Cyanide (Total)	1.2	0.86mg/ITCLP 550
60 61		0'-001	0.0039		132		-Methylcholanityrene -4-Methylene bis(2-chloroaniline)	0,0055		204		Cyanide (Amenable)	0.85	30
52		benz(a,h)anthracene	0.055	8.2	134			0.5		205 206		lounide ead	35 0.69	NA 0.37mg/i TCLP
63	_	ebenz(a,e)pyrene	0.061		135	M	lethyt ethyt kelone	0.28	36	207		fercury-Nonwesteweter from Retort	NA	0.20mg/LTCLP
54	1	2-Dibromo-3-chioropropane	0.11		136 137	- 1	lethyl isobutyl kelone lethyl methacrylate	0.14 0.14	33			Aercury-All Others	0.15	0.025mg/LTCLP
6	Οi	bromomethane	0.11	15	138		ethyl methansulfonate	0.018	160 NA			lickel elenium	3.98 0.82	5.0mg/l TCLP 0,16mg/TCLP
37		-Dichlorobenzene Dichlorobenzene	0.036		139		ethyl parathion	0.014	4.6	211	S	ilver	0.43	0.30mg/LTCLP
19		Dichiorobenzene Dichiorobenzene	0.08		140		aphthalene Naphthylamine	0.059	5.6 NA			ulfide halium	14	NA 0.020mad YOUR
0	Ďκ	Chlorodifluoromethane	0.23	7.2	142	ō	Niroaniline	0.32	14			anadium	1.4	0.078mg/LTCLP 0.23mg/LTCLP
/1 /2	.1	1-Dichloroethane 2-Dichloroethane	0.059 0.21		143 144		Nitroaniline Irobenzene	0.028	28 14			3NC	2.51	5.3mg/11CEP



# Pacific Resource Recovery

3150 East Pico Boulevard, Los Angeles, CA 90023 Phone (800) 499-7145 Fax (213) 780-0078

#### LAND DISPOSAL RESTRICTION NOTIFICATION

Manifes Line #	t Approval#	Manifest Line #	Approval #	Manifest Line #	Approval#
1 2	8060111				

This notification form shall be completed by the generator and shall accompany each shipment of restricted waste subject to the Land Disposal Restrictions (40 CFR 268 Subpart C).

- > Complete all information in Section I.
- > Check mark all appropriate Regulated Constituents in Section II, additional applicable Sections and/or complete Section III.
- > Sign and date Section IV.

SECTIO	NI							n sandul		
GENERAT	OR'S NAME	Space	Exdoral	FIDN TE	ch.					
EPA I.D. NI	EPA I.D. NUMBER (A-B)(00)(9)53LQ									
MANIFEST	NUMBER	50069-	7814JJY	Ź						
TREATABI	LITY GROUP		(Check one)	☐ Wastewat	er	☐ Non-Waste	water			
HAZARDO	US DEBRIS			⊡-Yes		☐ No				
EPA HAZA	RDOUS WASTI	E CODE(S) -								
DOOL	F003	Fas								
<b>-</b>										
There a	are underlying h	_	stituents of conce tuents of concern v see Section II).	•	eet the treat	ment standards o	of 40 CFR 268,4	8, Table		
🗹 Knowle										
Waste ana	ılysis data atta	ched?	☐ Yes	Q-1	νo					
aqueous and	1/96 – Section 25179.6 oi I solid waste conta	f the Health and Sa	OLID afety Code, NON-RC been repealed from ats.	RA	that apply) 28a – 28i)	11a D	11b 🔲 11c	11d		

#### UNIVERSAL TREATMENT STANDARDS

### SECTION II

The Underlying Hazardous Constituents must be identified for waste streams which carry the EPA Waste Codes F001—F005, F039, D001 (only D001 not treated by RORGS; CMBST or POLYM), D005—D043 (only D005—D043 if treated in Non-CWA, Non-CWA equivalent or Non-SDWA facilities).

The wastes identified on the aforementioned manifest document number and bearing the EPA Hazardous Waste Number(s) identified in Section I are subject to the Land Disposal Restrictions of 40 CFR 268 Subpart C. The wastes do not meet the applicable treatment standards specified in 40 CFR 268 Subpart D or exceeds the applicable prohibition levels specified in 40 CFR 268.32 (California list wastes) or RCRA Section 3004(d). In compliance with the requirements of 40 CFR 268.7 and 268.9 we are indicating below the applicable constituents of concern.

Page 1

	40 CF		,	E UIS - UNIVERS	AL IKE		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	IDARDS (Continued	<i>y</i>	1	T
Regulaleó constitueni ~ common asmé	CAS <sup>1</sup> HO.	Waxlewaler standard concentration in mg/ <sup>2</sup>	Hen-wasiewaler standard concen- trailen in mg/kg <sup>1</sup> uainsa noied as "mg/I TCLP"	Regulated constilizent — common name	CAS <sup>1</sup> HO.	Wastewster stendard concentration to mg/2	Non-wattewater standard concen- tration in mg/kg <sup>2</sup> unless noted as "mg/t TCLP"	Regulated constillers: — common name	CAS <sup>1</sup> HO.	Elaradard	Kon-wastawala: standard coxen: tration in mg/kg saless noted as "mg/l TCLP"
C) Acenaphihylene	208-96-8	0.059	3.4	Om-Dichlorobenzene	541-73-1	0.036	6	Op-Nitroaniline	100-01-6	0.028	28
□ Acenaphihene	83-32-9	0.059	3.4	□o·Dichiorobenzene	95-50-1	880.0	6	Clo-Nitroanlline	88-74-4	0.27	14
Acelone	67-54-1	0.28	160	Op-Dichlorobenzena	106-45-7	0.090	6	□Nitrobenzena	95-95-3	0.068	14
Acetonitrile	75-05-8	5.6	1.8	□ Dichlorod  tuoromethane	75-71-8	0.23	7.2	15-Nitro-o-totuidine	99-55-8	0.32	28
Acetophenone	95-86-2	0.010	9.7	☐1,1-Dichloroethane	75-34-3	0.059	- 5	☐ o-Nitrophenol	88-75-5	0.28	13
2-Acetylaminofluorene	53-96-3	0.059	140	1.2-Dichloroethane	107-06-2	0.21	6	Op-Nitrophenol	100-02-7	0.12	29
Acrolein	107-02-8	0.29	NA NA	1,1-Dichloroethylene	75-34-4	0.025	6	ON-Nitrosodiethylamine	55-18-5	0.40	28
☐ Acrylamide	79-05-1	19	23	trans-1,2-Dichloroethylene	156-60-5	0.054	30	N-Nitrosodimethylamine	62-75-9	0.40	2.3
O Acrylonitrile	107-13-1	0.24	84	☐2,4-Dichlorophenol	120-83-2	0.044	14	□ N-Nitroso-di-n-butlyamine	924-16-3	0.40	17
Q Aldrin	309-00-2	0.021	0.066	□ 2,6-Dichlerophenei	87-65-0 78-87-5	0.044	14	□ N-Nitrosomethylethylamine □ N-Nitrosomorpholine	10595-95-6 59-89-2	0.40	2.3
□4-Aminobiphenyl	92-67-1 62-53-3	0.13	NA 14	□1,2-Dichtoropropane □cls-1,3-Dichtoropropylene	10061-01-5	0.85	18	□N-Nitrosopiperidine	100-75-4	0.40 0.013	2,3 35
□ Aniline □ Anihiacène	120-12-7	0.059	3.4	Otrans-1,3-Dichloropropylene	10061-02-6	0.036	18	□N-Nitrosopyrrolidine	930-55-2	0.013	35
□ Antanacene □ Aramite	140-57-8	0.059	NA NA	O Dieldrin	60-57-1	0.030	0.13	OParathion	56-38-2	0.013	4.6
□aipha-BHC	319-84-6	0.00014	0.056	ODiethyl phthalate	84-66-2	0.20	28	☐Pentachlorobenzene	608-93-5	0.055	10
Obeta-BHC	319-85-7	0.00014	0.066	Op-Dimethylaminoazobenzene	60-11-7	0.13	NA NA	☐Pentachlorodibenzo-furans	NA		
Odelta-BHC	319-85-8	0.023	0.066	Q2,4-Dimethyl phenol	105-67-9	0.036	14	OPentachlorodibenzo-p-dioxins	NA	0.000063	
□oamma-8HC	58-89-9	0.0017	0.066	☐ Dimethyl phthalate	131-11-3	0.047	28	☐Pentachloroethane	76-01-7	0.055	6
□ Benz(a)anthracene	56-55-3	0.059	3.4	Oli-n-butyl phthalate	84-74-2	0.057	28	☐ Pentachtoronitrobenzene	82-68-8	0.055	4.8
□8enzal chlorida	98-87-3	0.055	6.0	O1.4-Dinitrobenzene	100-25-4	0.32	2.3	☐ Pentach(oropheno)	87-86-5	0.089	7.4
Benzene	71-43-2	0.14	10	Q4.6-Dinitro-o-cresol	534-52-1	0.28	160	☐Phenacetin	62-44-2	0.081	16
□Benzo(a)pyrene	50-32-8	0.061	3.4	Q2,4-Dinitrophenol	51-28-5	0.12	160	O Phenanthrene	85-01-8	0.059	5.6
□Benzo(b)fluoranthene	205-99-2	0.11	6.8	☐2.4-Dinitrololuene	121-14-2	0.32	140	□ Phenol	108-95-2	0.039	6.2
☐Benzo(g,h,i)parylene	191-24-2	0.0055	1.5	🗆 2,6-Dinkrotolusne	606-20-2	0.55	28	☐Phorate	258-02-2	0.021	4.6
☐ Benzo(k) iluoranthene	207-08-9	0.11	6.8	ODI-n-octyl phthalate	117-84-0	0.017	28	© Phthalic acld	100-21-0	0.055	28
□ bis-(2-Chloroethoxy) methane	111-91-1	0.036	7.2	□DI-n-propylnitrosamine	621-64-7	0.40	14	Phthalic anhydride	85-44-9	0,055	28
Obis-(2-Chioroethyl) ether	111-44-4	0.033	6.0	□ Diphenylaminė	122-39-4	0.92	13	C) Pronamide	23950-58-5	0.093	1.5
Obls-(Chloroisopropyl) ather	108-60-1	0.055	7.2	1.2-Diphenylhydrazine	122-66-7	0.087	NA NA	Propanenitrile (Ethyl cyanide)	107-12-0	0.24	360
Obis-(Ethylhexyl) phthalate	117-81-7	0.28	28	ODlphenylnitrosamine	86-30-6	0.92	13	☐Pyrene .	129-00-0	0.067	8.2
□8romedichloremethane	75-27-4	0.35	15	1,4-Dioxane	123-91-1	NA	170	Pyridine	110-85-1	0.014	16
OBromomethans (methyl bromide)	74-83-9	0.11	15	□ p-Dimethylaminoazobenzene	60-11-7	0.13	NA .	Q Safrole	94-59-7	0.081	22
Q4-Bromophenyl phenyl ether	101-55-3	0.055	15	□Disulfoton □Endosulfan I	298-04-4 939-98-8	0.017	6.2	OSilvex (2.4,5-TP)	93-72-1	0.72	7.9
□b-8utyl alcohol	71-36-3	5.6	2.6	□Endosullan II	33213-6-5	0.023	0.066	Q1,2,4,5-T	93-76-5 95-94-3	0.72	7.9
Butyl benzyl phthalate	85-68-7	0.017	28	□ Endosulian sulfate	1-31-07-8	0.029	0.13	OTetrachlorodibenzo-lurans	93-94-3 NA	0.055	14
2-sec-Butyl-4,6-dinitrophenol				□ Endrin	72-20-8	0.023	0.13	☐ Tetrachiorodibenzo-p-dioxins	NA NA	0.000063	0.001
dinoseb	88-85-7	0.066	2.5	☐ Endrin aldehyde	7421-93-4	0.0025	0.13	1.1.1.2-Tetrachioroethane	630-20-6	0.00063	6,0
Carbon disullide	75-15-0	3.8	4.8 TCLP	☐ Ethyl acetate	141-78-6	0.34	33	1.1.2.2-Tetrachloroethane	79-34-6	0.057	6.0
Carbon tetrachloride	56-23-5	0.057	6.0	ClEthyl benzene	100-41-4	0.057	10	☐ Telrachloroethylene	127-18-4	0.056	6.0
UChiordane (alpha & gamma Isomers)	57-74-9	0.0033	0.26	Ethyl ether	60-29-7	0.12	160	2,3,4,6-Tetrachlorophenol	58-90-2	0.030	7,4
□p-Chioroaniline	106-47-8	0.46	16	□ Ethyl methacrylate	97-63-2	0.14	160	☐ Toluene	108-88-3	0,080	10
O Chlorobenzene	108-90-7	0.057	6.0	□Ethylens oxids	75-21-B	0.12	NA .	☐ Toxaphene	8001-35-2	0.0095	2.6
☐ Chlorobenzilate	510-15-6	0.10	NA	□ Famphur	52-85-7	0.017	15	Ci Tribromomethane (bromoform)	75-25-2	0.63	15
12-Chloro-1,3-butadiene	126-99-8	0.057	0.28	O Fluoranthene	206-44-0	0.068	3.4	☐ 1,2,4-Trichlorobenzene	120-82-1	0.055	19
C3Chlorodibromomethane	124-48-1	0.057	15	Ofluorène	85-73-7	0.059	3.4	t,1,1-Trichloroethane	71-55-6	0.054	6.0
□ Chloroethane	75-00-3	0.27	6.0	☐ Heptachlor	76-44-B	0.0012	0.066	1,1,2-Trichloroethane	79-00-5	0.054	6.0
□ Chloroform	67-66-3	0.046	6.0	OHeptachlor epoxide	1024-57-3	0.016	0.066	☐Trichloroethylene	79-01-6	0.054	6.0
Op-Chloro-m-cresol	59-50-7	0.018	14	☐Hexachlorobenzene	118-74-1	0.055	10	O Trichloromonoflyoromethane	75-69-4	0.020	30
2-Chloroethyl vinyl ether	110-75-8	0.052	NA	OHexachlorobutadiene	87-68-3	0.055	5.6	C) 2,4,5-Trichtorophenoi	95-95-4	0.18	7.4
OChloromethane (methyl	,,,,,		20	OHexachlorodibenzo-lurans	NA	0.000063	0,001	☐2,4,6-Trichlorophenol	88-06-2	0.035	7.4
chloride)  12-Chloronaphthalene	74-87-3	0.19	30 5.6	Citiexachlorodibenzo-p-dioxins	NA	0.000063	0.001	1,2,3-Trichloropropane	96-18-4	0.85	30
Q2-Chlorophenol	91-8-7 95-57-8	0.055 0.044	5.6	OHexachlorocyclopentaciene	77-47-4	0.057	2.4	1,1,2-Trichloro-1,2,2- triftuoroethane	76-13-1	0.057	30
O3-Chloropropylene	107-05-1	0.036	30	☐ Hexachloroethane ☐ Hexachloropropylene	67-72-1 1888-71-7	0.055 0.035	30 30	□Vinyi chipride	75-01-4	0.037	6.0
☐ Chrysene	218-01-9	0.059	3.4	Olndana (1,2,3-c,d)pyrana	193-39-5	0.035	3.4	□Xylenes (total)	1330-20-7	0.32	30
Op-Cresol	105-44-5	0.77	5.6	Olodomethane	74-88-4	0.0055	65	☐ Total PCBs	1336-35-3	0.1	10
□m-Cresol	108-39-4	0.77	5.6	Olsobutyl alcohol	78-83-1	5.6	170	□Antimony	7440-36-0	1.9	0.07 TCL
□o-Cresol	95-48-7	0.11	5.6	Olsodrin	465-73-6	0.021	0.066	□Arsenic	7440-38-2	1.4	5.0 TGLF
□Cyclohexanone	108-94-1	0.36	0.75 TCLP	□ Isosafrole	120-58-1	0.021	2.6	<b>□</b> Barlum	7440-39-3	1.2	21 TCLP
2-4-Dichlorophenoxyacetic				☐Kepone	143-50-8	0.0011	0.13	O Beryllium	7440-41-7	0.82	0.02 TGLI
acid (2,4-D)	94-75-7	0.72	10	O Methacrylonitrile	126-98-7	0.24	84	□ Cadmium	7445-43-9	0.69	0.2 TCLF
Q0.95-DDD	53-19-0	0.023	0.087	OMethanol	67-56-1	5.6	0.75 TCLP	□Chromium (total)	7440-47-3		0.85 TCLI
Clp,p'-DDD	72-54-8	0.023	0.087	OMethapyrilene	91-80-5	0.081	1.5	□Cyanide (total)	57-12-5	1.2	5901
□ o ,o'+DDE	3424-82-6	0.031	6.087	□Methoxychlor	72-43-5	0.25	0.18	□ Cyanide (amenable)	57-12-5	0.86	301
	72-55-9	0.031	0.087	□3-Methylchioanthrene	56-49-5	0.0055	15	☐ Fluoride	16964-48-8		NA
□p,p'-00€	789-02-6	0.0039	0.087	Q4,4-Methylene-bis-	1- 4	0.0000		□Lead	7439-92-1	0.69	0.75 TCL!
□p,p'-00€ □o,p'-00T			0.087	(2-chloroanHine)	101-14-4	0.50	30	Mercury - NWW from Retort	7439-97-6	0.15	0.20 TCL
□p,p'-00€ □o,p'-00T □p,p'-00T	50-29-3	0.0039	0.001			0.000	30	Mercury - all others	7439-97-6		0.025 TCL
Op.p'-008 Oo.p'-007 Op.p'-007 Olibenzo(a.e)pyrene	50-29-3 192-65-4	0.0039	NA NA	OMethylene chloride	75-09-2	0.089	, vo .		1473-31-0	0.15	0.070 (00)
Op.p°-ODE Op.p°-ODT Op.p°-ODT ODibenzo(a.e)pyrene Obbenzo(a.e)parthracene	50-29-3				75-09-2 78-93-3	0.089	36	□Nickel	7440-02-0	3.98	ļ
Op.p-ODE Op.p-ODT Op.p-ODT ODibenzo(a,e)pyrene Obbenzo(a,h)anthracene Otris-(2,3-Obromopropyl)	50-29-3 192-65-4 53-70-3	0.061 0.055	NA 8.2	OMethylene chloride			<del></del>		~~~~		13.6 TCL
Op.p-ODE Op.p-ODT Op.p-ODT ODibenzo(a,a)pyrene Obbenzo(a,h)anthracene Otris-(2,3-Dibramopropyl) phosphate	50-29-3 192-65-4 53-70-3 126-72-7	0.051 0.055 0.11	NA 8.2 0.10	Methylene chloride  Methyl ethyl ketone	78-93-3	0.28	36	□Nickel	7440-02-0	3.98	13.6 TCLI 5.7 TCLI
Op.p'-ODE Op.p'-ODT Op.p'-DOT Obbenzo(a,h)anthracene Otris-(2,3-Dibromopropyl) phosphate O1,2-Dibromo-3-Chloropropane	50-29-3 192-65-4 53-70-3	0.061 0.055	NA 8.2	☐ Methylene chloride ☐ Methyl ethyl ketone ☐ Methyl Isobutyl ketone	78-93-3 108-10-1	0,28 0.14	36 33	□Nicket □Selenium <sup>5</sup>	7440-02-0 7782-49-2	3.98 0.82 0.43	13.6 TCLI 5.7 TCLI
Op.p'-ODE Op.p'-ODT Op.p'-ODT Oblenzo(a,e)pyrene Oblenzo(a,h)anthracene Otris-(2.3-Obromopropyl) phosphate O1.2-Obromo-3-Chloropropane	50-29-3 192-65-4 53-70-3 126-72-7 96-12-8	0.061 0.055 0.11 0.11	NA 8.2 0.10 15	○Methylene chloride ○Methyl ethyl ketone ○Methyl Isobutyl ketone ○Methyl methacrylate	78-93-3 108-10-1 80-62-6	0,28 0.14 0.14	36 33 160	□Nickel □Selenium <sup>5</sup> □Silver	7440-02-0 7782-49-2 7440-22-4	3.98 0.82 0.43 114.0	13.6 TCL 5.7 TCL 0.11 TCL NA
Op.p'-ODE Op.p'-ODT Op.p'-DOT Obbenzo(a,h)anthracene Otris-(2,3-Dibromopropyl) phosphate O1,2-Dibromo-3-Chloropropane	50-29-3 192-65-4 53-70-3 126-72-7	0.051 0.055 0.11	NA 8.2 0.10	☐ Methylene chloride ☐ Methyl ethyl ketone ☐ Methyl Isobutyl ketone ☐ Methyl methacrylate ☐ Methyl methansulfonate	78-93-3 108-10-1 80-62-6 66-27-3	0,28 0.14 0.14 0.018	36 33 160 NA	□ Nickel □ Selenium <sup>5</sup> □ Sliver □ Sulfide	7440-02-0 7782-49-2 7440-22-4 8496-25-8	3.98 0.82 0.43 14.0	13.6 TCLI 5.7 TCLI 0.11 TCL

40 CFR 268.48 TABLE UTS - UNIVERSAL TREATMENT STANDARDS (Continued)
<sup>1</sup> CAS means Chemical Abstract Services. When the waste code and/or regulated constituents are described as a combination of a chemical with its salts and/or esters, the CAS number is given for the parent compound only.
<sup>2</sup> Concentration standards for wastewaters are expressed in mg/l are based on analysis of composite samples.
<sup>3</sup> Except for Cyanides (Total and Amenable) the non-wastewater treatment standards expressed as a concentration were established, in part, based upon incineration in units operated in accordance with the technical requirements of 40 CFR part 264, subpart 0 or 40 CFR part 265, subpart 0, or based upon combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may comply with these treatments standards according to provisions in 40 CFR 268.40(d). All concentration standards for nonwastewaters are based on analysis of grab samples.
<sup>4</sup> Both Cyanides (Total) and Cyanides (Amenable) for non-wastewaters are to be analyzed using Method 9010 or 9012, found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846, as incorporated by reference in 40 CFR 260.11, with a sample size of 10 grams and a distillation time of one hour and 15 minutes.
<sup>5</sup> These constituents are not "underlying hazardous constituents" in characteristic wastes, according to the definition at §268.2 (i).
<sup>6</sup> Between August 26, 1996, and August 26, 1997, these constituents are not "underlying hazardous constituents" as defined at §268.2 (i) of this Part. Note: NA means not applicable.
Please complete as applicable:
Wastes with organic constituents having treatment standards expressed as concentration levels based in whole or in part on the analytical detection limit alternative specified in §268.40(d).
I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the non-wastewater organic constituents have been treated by combustion units as specified in 268.42. Table 1.1 have been unable to detect the non-wastewater organic constituents, despite having used best good-faith efforts to analyze for such constituents. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
Wastes with treatment standards expressed as concentrations in the waste extract Toxicity Characteristic Leaching Procedure (TCLP).
I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false
☐ Alternative Treatment Standard Lab Pack
Manifest Line No.
I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes that have not been excluded under Appendix IV to 40 CFR Part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.
I hereby certify under penalty of law that there are no PCBs (polychlorinated biphenyls) contained in the oil waste being manifested to Pacific Resource Recovery. I also understand that a sample of the load will be retained and that the generator will be responsible for the clean-up of contaminated equipment, tanks, etc. if PCBs are present in the waste.
Benzene NESHAP Control Requirement: For Chemical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRA TSDFs handling wastes subject to 40 CFR 61 subpart FF ONLY:
This waste is a "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR 61 Subpart FF.
Manifest Line No.
California List Wastes:
Liquid hazardous wastes having a pH less than or equal to 2.0
Liquid hazardous wastes containing PCBs at a concentration greater than or equal to 50 ppm
Liquid hazardous wastes that contain HOCs in total concentration greater than or equal to 1000 mg/l  Nonliquid hazardous wastes containing HOCs in total concentration greater than or equal to 1000 mg/kg
Free (amenable to chlorination) cyanides greater than or equal to 1000 mg/kg
One or more of the following metals greater than or equal to the following:
Arsenic and/or compounds: 500 mg/l Cadmium and/or compounds: 100 mg/l
Chromium and/or compounds: 500 mg/l
Lead and/or compounds: 500 mg/l Mercury and/or compounds: 20 mg/l
Nickel and/or compounds: 134 mg/l
Selenium and/or compounds: 100 mg/l Thallium and/or compounds: 130 mg/l



3150 East Pico Boulevard, Los Angeles, CA 90023 Phone (800) 499-7145 Fax (213) 780-0078

# ADDITIONAL RESTRICTED WASTE IDENTIFICATION/ TREATMENT STANDARDS AND CERTIFICATION FORM

SECTION III	More are an order designed.	ili — Alexandria (A. Selvici), Charlegally (Francisco) Republication							
Complete Section III if the restricted wastes (i.e., EPA Hazardous Waste Code) as listed in Section I do not meet the applicable treatment standards in 40 CFR 268.40 (Treatment Standards for Hazardous Wastes) and have not been identified as required in Section II.									
EPA Hazardous Waste Code	Subcategory (if applicable)	Appropriate Treatment Standard	Alternative Treatment Technology (Debris)						
			<u>.</u>						

The state of the s
I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.
Company Name: Space Exploration
Authorized Signature De: 3 - On Behalf of Space Ex.
Printed Name: Araceli Rodinguez
Date: <u>4/9/08</u>

#### Slemens Water Technologies Corp.

# LAND DISPOSAL RESTRICTION NOTIFICATION FORM

Pursuant to CCR Title 22, Section 66263.7(40 CFR 268.7(a), I hereby notify that this waste shipment contains one or more of the following wastes restricted under the land disposal restrictions for which applicable treatment standards are set forth in CCR Title 22, Section 66268.40 (40 CFR 266.40)

Manifest Num.0005979193JK Generator Name: Space Exploration EPA# CAR000191536							
RCRA HAZARDOUS	Waste Infort						
U.S.F. PROFILE	List all	Subcategory		VATER"	Catifornia List **	Hazardous Dabris Subject To	
NUMBER/ MANIFEST	0.6,K,U&P	400 0000	NONWAST		Per CCR Title 22, Section	CCR Title 22, Sec 66268.45	
LINE (TEM NUMBER	Codes	(if any)		MWW	66268.32		
l						П	
1)	D001				L_1701:		
2)	D081				☐ For:		
44	600			1			
3)	DQ01				☐ For:		
			П			П	
4)	0001				☐ For:		
ADDITIONAL INF	ORMATION I	FOR DOO1, DOO2	, D012-43	, F001-5 8	: Fos9 Waste Stream	lS: (check one)	
There are no un	dedvina hazard	lous constituents ((	JHCs) prese	ent			
					- made transport atoms orde	nos CCD Titlo 22 Soction	
	lying nazardous	s constituents (Unic	s) present v	MUICU GO UD	t meet treatment standards	per CCR Time 22, decilon	
66268.48	1 1 1750 T- 51-			- 124 146-1	and in the wants stranged	·	
(Use the attach	ed n 12 Table s	and check the appr	opnate cons	situent(s) pr	esent in the waste stream)		
DETERMINATION							
Knowledge of th	ie processigend	erating the waste a	nd the raw n	naterials use	ed and the reaction product	3	
Results from an	•	•			ts attached I YES I N		
LI Results from alk	allitical results		71112	nytices recon			
TERM DEFINETION	ms.		ė				
* WASTEWATER	= ner CCR Tille	22. Section 66260.9	D. WASTE TI	HAT CONTAI	NS LESS THAN 1% BY WEIG	HT TOTAL TOXIC ORGANICS	
* WASTEWATER = per CCR Title 22, Section 66260.10, WASTE THAT CONTAINS LESS THAN 1% BY WEIGHT TOTAL TOXIC ORGANICS (TOCs) AND 1% BY WEIGHT TOTAL SUSPENDED SOLIDS (TSS).							
*CALIFORNIA LIST= THE FOLLOWING HAZARDOUS WASTES ARE PROHIBITED FROM LAND DISPOSAL: per CCR Title 22, Section 66268.32							
<ul> <li>Liquid hazardous</li> </ul>	Liquid hazardous waste with a pH less than or equal to 2.0						
Urguid hazardous waste containing PCB's at concentration of greater than or equal to 50 ppm							
. Liquid hazardous waste, including free liquids associated with any solids/sludge, containing free cyanide at concentrations greater than or equal to							
1,000 mg/L							
Solidary Liquid hazardous waste, including free liquids associated with any solids/sludge, containing metals at concentrations greater than or equal to the							
following:			MEDALIA		00 ··· - #		
ARSENIC	500 mg/L		MERCUR	Υ	20 mg/L 134 mg/L		
CADMIUM	100 mg/L		NICKEL	Re .	134 mg/L 100 mo/L	COLUMN TO THE PARTY OF THE PART	
CHROMIUM	500 ang/L	·	SELENIU THALLIU		130 mg/L		
LEAD	500 mg/L	alea LICOla la fatal a				- Control - Cont	
Liquid hazardous waste, that contains HOC's in total concentration greater than or equal to 1,000 mg/L     Non-liquid RCRA hazardous waste containing HOC's in total concentration greater than or equal to 1,000 mg/L							
CERTIFICATION I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge							
of the waste to support this certification. I believe that the information-likeve submitted is true, accurate and complete. I am aware that there							
are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment							
SOS for Space		···	/a/N			08/20/08	
	- Pabloration						
COMPANY NAME			AU	THORIZED	SIGNATURE	DATE	

### Siemena Water Technologies Corp.

### LAND DISPOSAL RESTRICTION NOTIFICATION FORM

Pursuant to CCR Title 22, Section 66268.7(40 CFR 268.7(a), I hereby notify that this waste shipment contains one or more of the following wastes restricted under the land disposal restrictions for which applicable treatment exandants are set forth in CCR Title 22, Section 66268.40 (40 CFR 268.40)

	P007 1 114			. •			
Manifest Num.000697 RCRA HAZARDOUS \			pace Explor	<u> </u>	EPA# CARO	<u>0191536</u>	
U.S.F. FROFILE NUMBER/ MANIFEST LINE ITEM NUMBER	List all D, F, K, U & P Codes	Subcategory (IF ANY)		vatery Tewater Nww	California List ** Per CCR Title 22, Section 66268.32	Hazardous Debris Subject To CCR Title 22, Sec 66269.45	
1)P177814	D002,D007				☐For:		
2)AP169390	DD06,D007				☐ For:		
3)					☐ For:		
					☐ For:		
					6 F039 Waste Streat	IS: (check one)	
There are no und		•					
66268.48					meet treatment standards		
			opriate cons	tituent(s) pr	esent in the waste stream)		
DETERMINATION			1 11				
		ranng me waste ar			ed and the reaction product		
☐ Results from ana	llytical testing		Ana	iytical result	s attached DYES D	∛O.	
TERM DEFINITIONS:  **WASTEWATER = per CCR Title 22, Section 66260.10, WASTE THAT CONTAINS LESS THAN 1% BY WEIGHT TOTAL TOXIC ORGANICS (TOCs) AND 1% BY WEIGHT TOTAL SUSPENDED SOLIDS (TSS).							
*CALIFORNIA LIST= THE FOLLOWING HAZARDOUS WASTES ARE PROHIBITED FROM LAND DISPOSAL: per CCR Title 22, Section 66268.32  Liquid hazardous waste with a pH less than or equal to 2.0  Liquid hazardous waste containing PCB's at concentration of greater than or equal to 50 ppm  Liquid hazardous waste, including free liquids associated with any solids/sludge, containing free cyanide at concentrations greater than or equal to 1,000 mg/L							
following:		free liquids associate				ions greater than or equal to the	
ARSENIC CADMIUM	500 mg/L 100 ma/L	·	MERCURY NICKEL		20 mg/L 134 mg/L	A SECTION AND A SECTION AND A SECTION AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT A	
CHROMIUM	500 mg/L		SELENIUR		100 mg/L		
LEAD	500 mg/L		THALLIUR	1	130 mg/L		
<ul> <li>Liquid hazardous waste, that contains HOC's in total concentration greater than or equal to 1,000 mg/L</li> <li>Non-liquid RCRA hazardous waste containing HOC's in total concentration greater than or equal to 1,000 mg/L</li> </ul>							
CERTIFICATION I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification. I believe that the information I have submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment							
SOS for Space	Exploration					08/20/08	
COMPANY NAME DATE DATE							



#### Rho Chem Corporation, a wholly owned subsidiary of PHILIP SERVICES CORP., RCRA Land Disposal Restriction Notification Form EZ

Generator: SPACC)	•	IIS FPAID	#: <u>CARODO1915</u> 36	
Profile #: 37051500		Manifest #:	000697935 JJK	
The wastes identified on this fo	orm are subject to the land disposal rether applicable prohibition levels spectores that apply):	restrictions of 40 CFR Pa cified in 268.32. Pursuan	rt 268. The wastes do not meet the treatment stan t to 40 CFR 268.7(a), the required information ap	dards specified applicable to each
	Treatability Group: (Wastewaters contain less than	☐ Wastewater 1% filterable solids and l	Nonwastewater ess than 1% Total Organic Carbon)	
(Complete form UC,  □ D001 Ignitable (except for D001 High TOC Ignitable D002 Corrosive managed D002 Corrosive managed D003 Reactive Sulfides based D003 Reactive Cyanides but D003 Water Reactives based D003 Water Reactives D003	ased on 261.23(a)(5)	nd the waste is to be com. A-equivalent/Class I SDW on) t/non Class I SDWA sys DWA systems  aged in non-CWA/non- ged in CWA/ CWA-equiv	busted or recovered.)  A systems  stems (Complete form UC)  CWA-equivalent/non Class I SDWA systems (C	Complete form
If D004-43 boxes are checked, com SDWA systems):	plete and attach Form UC to address und	derlying hazardous constitue	ents (unless these wastes are to be managed in CWA/C	WA-equivalent/C
□ D007 Chromium □ □ D009 High mercury inorga □ D009 High-mercury organi □ D009 Low-mercury (<260 □ D010 Selenium □ D012 Endrin □ D013 Lindane □ D014 Methoxychlor □ D015 Toxaphene □ D016 2,4-D □ D017 2,4,5-TP (Silvex) □ D018 Benzene □ D019 Carbon tetrachloric □ D020 Chlordane □ D021 Chlorobenzene □ D022 Chloroform	D008 Lead D008  nic (>260 mg/kg total), including inc c (>260 mg/kg total), not including i mg/kg total) D009  D011 Silver D023 o-Cresol D024 m-Cresol D025 p-Cresol D026 Cresols (Total) D027 p-Dichlorobenzen D028 1,2-Dichloroethan D029 1,1-Dichloroethyle D030 2,4-Dinitrotoluend D031 Heptachlor D032 Hexachlorobenzen	B Lead acid batteries cinerator residue and residue ncinerator residue D All D009 wastewaters D D033 Hex D D034 Hex D D035 Met D D036 Nitt E D D037 Pen D D038 Pyr ene D D039 Tett E D040 Trichloroethy D D041 2,4, ne D D042 2,4, D D043 Vin	kachlorobutadiene kachloroethane thyl ethyl ketone robenzene itachlorophenol idine rachloroethylene ylene 5-Trichlorophenol 6-Trichlorophenol	Clean Water A
	or unless otherwise noted above.			
	stes are included in this shipment: S. (If this box is checked, complete the F	•	ck of this form. Check the hazardous waste number(s) t	hat applies, and
identify the constituents likely to be			, , , , , , , , , , , , , , , , , , ,	uppriou, unu
	itional waste codes that are not		-	
EPA Waste Code Su	bcategory (if applicable)	EPA Waste Code	Subcategory (if applicable)	

This is a two sided form

Form EZ Revised 04/18/2007

Ha	zardous waste description	Regulated hazardous constitue	<u>ents</u>
	F001 Spent halogenated solvents used in degreasing	Carbon tetrachloride Tetrachloroethylene Trichloroethylene Trichloromonofluoromethane	Methylene chloride 1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
	F002 Spent halogenated solvents	Chlorobenzene Methylene chloride 1,1,1-Trichloroethane Trichloroethylene Trichloromonofluoromethane	o-Dichlorobenzene Tetrachioroethylene 1,1,2-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane
	F003 Spent non-halogenated solvents	Acetone Cyclohexanone* Ethyl benzene Methanol* Xylenes (total)	n-Butyl alcohol Ethyl acetate Ethyl ether  Methyl isobutyl ketone
	F004 Spent non-halogenated solvents	<i>m</i> -Cresol <i>p</i> -Cresol Nitrobenzene	o-Cresol Cresol-mixed isomers (cresylic acid)
	F005 Spent non-halogenated solvents	Benzene - 2-Ethoxyethanol Methyl ethyl ketone Pyridine	Carbon disulfide* Isobutyi alcohol 2-Nitropropane Toluene
co	ne treatment standards for carbon disulfid ntaining only one, two, or all three of the: nstituents are present in the waste.	le, cyclohexanone, and methanol nonw se constituents. The treatment standard	astewaters are based on the TCLP and apply to spent solvent nonwastew is for these three constituents do not apply when any of the other F001-F
—— Ha:	zardous Debris		
	This shipment contains hazardous debris blasting).	s that will be treated to comply with the	e alternative treatment standards of 268.45 (e.g., macroencapsulation or a
(Th			. Per 268.45, hazardous debris must be treated for each "contant of and list the regulated hazardous constituents for each code.)
		debric are identified below	
sub	contaminants subject to treatment for this	s debtis are identified below.	

# Rho Chem Corporation, a wholly owned subsidiary of PHILIP SERVICES CORP., RCRA Land Disposal Restriction Notification Form UC

nted Name	Signature	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Date	-	
to support this certification. I	e examined and am familiar with certify that as an authorized rep arrect to the best of my knowleds	presentative of the gener	ysis and testing, or throater and testing, all t	ough knowledge of the wast he information submitted in	te 1
Analysis					
Generator's knowledge o	of the waste				
,	hazardous constituents was base	гd on:			
		,			
			for ex-	· · · · · · · · · · · · · · · · · · ·	
	in this waste. The underlyi				
	S list of 268.48, and per 26	•		ng hazardous	
	S list of 268.48, and per 26 reasonably expected to be p			no underlying	
In order to address underlyin	ng hazardous constituents in ch	aracteristic wastes, plea	ise check the approprie	te box:	
hazardous waste, at a concentre and subcategory applicable to t	ation above the constituent-specific this waste.	; UTS treatment standard.	Refer to Form-EZ (attacl	1ed) for the waste code(s), trea	ntability g
means any constituent listed in	8.7(a), the underlying hazardous co 268.48, Table UTS—Universal Tre	eatment Standard which ca	in reasonably be expected	d to be present at the point of s	generatio
Profile #:		Manifest #:	00697935	JUK	
Generator: SPECE)	<u> </u>	U.S. EPA I.D. #:	<u> </u>	191536	

List of Underlying Hazardous Constituents 40 CFR 268.48 Circle or otherwise identify the underlying hazardous constituents present in the waste: Organic Constituent Organic Constituent Organic Constituent Organic Constituent A2213 2-Chlorophenol Ethyl acetate Oxamyl Acenaphthylene 3-Chloropropylene Ethyl benzene Parathion Acenaphthene Chrysene Ethyl cyanide/Propanenitrile Total PCBs(sum of all isomers, or all Aroclors) Acetone o-Cresol Ethyl ether Pebulate Acetonitrile m-Cresoi bis(2-Ethylhexyl)phthalate Pentachiorobenzene PeCDDs(All Pentachlorodibenzo-p-dioxii Acetophenone p-Cresol Ethyl methacrylate 2-Acetylaminofluorene m-Cumenyl methylcarbamate Ethylene oxide PeCDFs(All Pentachlorodibenzofurans) Cyclohexanone Acrolein Famphur Pentachloroethane Acrylamide o,p'-DDD Fluoranthene Pentachloronitrobenzene p,p'-DDD Acrylonitrile Fluorene Pentachlorophenol Aldicarb sulfone o,p'-DDE Formetanate hydrochloride Phenacetin p,p'-DDE Aldrin Formparanate Phenanthrene 4-Aminobiphenyl o,p'-DDT Heptachlor Phenoi p.p'-DDT Aniline Heptachlor epoxide o-Phenylenediamine Dibenz(a,h)anthracene Anthracene Hexachlorobenzene Phorate Aramite Dibenz(a,e)pyrene Hexachlorobutadiene Phthalic acid alpha-BHC 1,2-Dibromo-3-chloropropane Hexachlorocyclopentadiene Phthalic anhydride 1,2-Dibromoethane/Ethylene dibromide beta-BHC HxCDDs(All Hexachlorodibenzo-p-dioxins)Physostigmine delta-BHC Dibromomethane HxCDFs(All Hexachlorodibenzofurans) Physostigmine salicylate gamma-BHC m-Dichlorobenzene Hexachloroethane Promecarb Barban o-Dichlorobenzene Hexachloropropylene Pronamide Bendiocarb p-Dichlorobenzene Indeno(1,2,3-c,d)pyrene Propham Dichlorodifluoromethane Bendiocarb phenol Iodomethane Propoxur 1,1-Dichloroethane Benomyi Isobutyl alcohol Prosuifocarb Benzene 1,2-Dichloroethane Isodrin Pyrene Benz(a)anthracene 1,1-Dichloroethylene Isolan Pyridine trans-1,2-Dichloroethylene Benzal chloride Isosafrole Safrole Benzo(b)fluoranthene 2,4-Dichlorophenol Kepone Silvex/2,4,5-TP Benzo(k)fluoranthene 2.6-Dichlorophenol Methacrylonitrile 1,2,4,5-Tetrachlorobenzene 2,4-Dichlorophenoxyacetic acid/2,4-D Benzo(g,h,i)perylene Methanol TCDDs(All Tetrachlorodibenzo-p-dioxins Benzo(a)pyrene 1,2-Dichloropropane Methapyrilene TCDFs(All Tetrachlorodibenzofurans) Bromodichloromethane cis-1,3-Dichloropropylene Methiocarb 1,1,1,2-Tetrachloroethane Bromomethane/Methyl bromide trans-1,3-Dichloropropylene Methomyl 1,1,2,2-Tetrachloroethane 4-Bromophenyl phenyl ether Dieldrin Methoxychior Tetrachloroethylene n-Butyl alcohol Diethylene glycol, dicarbamate 3-Methylcholanthrene 2,3,4,6-Tetrachlorophenol Diethyl phthalate Butylate 4,4-Methylene-bis(2-chloroaniline) Thiodicarb p-Dimethylaminoazobenzene Butyl benzyl phthalate Methylene chloride Thiophanate-methyl 2-sec-Butyl-4,6-dinitrophenol/Dinoseb 2,4-Dimethyl phenol Methyl ethyl ketone ... Tirnate Carbaryl Dimethyl phthalate Methyl isobutyl ketone Toluene Carbenzadim Dimetilan Methyl methacrylate Toxaphene Carbofuran Di-n-butyl phthalate Methyl methansulfonate Triallate Carbofuran phenoi 1,4-Dinitrobenzene Methyl parathion Tribromomethane/Bromoform Carbon disulfide Metolcarb 4,6-Dinitro-o-cresol 2,4,6-Tribromophenol Carbon tetrachloride 2,4-Dinitrophenol Mexacarbate 1,2,4-Trichlorobenzene Carbosulfan 2,4-Dinitrotoluene Molinate 1,1,1-Trichloroethane Chlordane (alpha and gamma isomers) 2,6-Dinitrotoluene Naphthalene 1,1,2-Trichloroethane p-Chloroaniline Di-n-octyl phthalate 2-Naphthylamine Trichloroethylene Chlorobenzene Di-n-propylnitrosamine o-Nitroaniline Trichloromonofluoromethane 1,4-Dioxane Chlorobenzilate p-Nitroaniline 2,4,5-Trichlorophenol 2-Chloro-1,3-butadiene 2,4,6-Trichlorophenol Diphenylamine Nitrobenzene Chlorodibromomethane Diphenylnitrosamine 5-Nitro-o-toluidine 2,4,5-Trichlorophenoxyacetic acid/2,4,5-T Chloroethane 1,2-Diphenylhydrazine o-Nitrophenol 1,2,3-Trichloropropane p-Nitrophenol bis(2-Chloroethoxy)methane Disulfoton 1,1,2-Trichloro-1,2,2-trifluoroethane bis(2-Chloroethyl)ether Dithiocarbamates (total) N-Nitrosodiethylamine Triethylamine Chloroform Endosulfan I N-Nitrosodimethylamine tris-(2,3-Dibromopropyl)phosphate bis(2-Chloroisopropyl)ether Endosulfan II N-Nitroso-di-n-butylamine Vernolate p-Chloro-m-cresol Endosulfan sulfate N-Nitrosomethylethylamine Vinyl chloride Endrin N-Nitrosomorpholine

2-Chloroethyl vinyl ether Chloromethane/Methyl chloride

concentrations) 2-Chloronaphthalene

Inogranic Constituent Antimony

Arsenic Barium Beryllium

Inorganic Constituent

Endrin aldehyde

Cadmium Chromium (Total) Cyanides (Total) Cyanides (Amenable) N-Nitrosopyrrolidine Inorganic Constituent

N-Nitrosopiperidine

Lead

Mercury-Nonwastewater from Retort Mercury-All Others Nickel

Inorganic Constituent Silver

Xylenes-mixed isomers

(sum of o-,m-, and p-xylene

Sulfides Thallium